2024版

ROHM
SEMICONDUCTOR

罗姆集团综合产品目录

ROHM Co.,Ltd.

关于罗姆的功能安全品牌ComfySIL™

ROHM为了使进行功能安全设计的客户能够Comfy(舒适)地使用支持SIL(Safety Integrity Level：安全完整性等级)的产品，同时，还希望其产品为构建安全、安心和舒适的社会做出贡献。基于以上想法，ROHM推出了ComfySIL™品牌。

ComfySIL™适用于遵循ComfySIL™理念的功能安全产品，不仅适用于汽车领域也适用于工业设备领域。

⇨ 详情请浏览罗姆官网
https://www.rohm.com.cn/functional-safety

功能安全类别和可提供的文档

ROHM拥有以下三种功能安全产品。(目前仅支持汽车领域)

- **FS process compliant (FSp)**
  表示相应LSI是按照符合ISO 26262标准中ASIL等级规定的流程开发的。
- **FS mechanism implemented (FSm)**
  表示相应LSI搭载了ASIL等级要求的安全机制。
- **FS supportive (FSs)**
  表示这是面向车载领域开发的IC，支持与功能安全性相关的安全性分析。

可提供的资料列表

	FS process compliant (FSp)	FS mechanism implemented (FSm)	FS supportive (FSs)
支持IATF16949流程	✓	✓	✓
支持ISO 26262流程	✓	—	—
FMEA	✓	✓	✓
FIT	✓	✓	✓
FMEDA	✓	✓	✓*
Safety manual	✓	✓	—

*FS supportive的FMEDA中不包括对硬件架构指标等的分析。

“Nano系列”是采用了罗姆充分节能和小型化的先进电源技术的产品。

• 超高速脉冲控制技术	Nano Pulse Control™
• 超低消耗电流技术	Nano Energy™
• 超稳定控制技术	Nano Cap™

⇨ 详情请浏览罗姆官网
https://www.rohm.com.cn/support/nano

融合了罗姆的模拟“电路设计技术”、“布局技术”、“工艺技术”开发而成的“**EMARMOUR™**系列”产品，通过了4项国际噪声评估测试，实现了极具优势的抗噪性能。

⇨ 详情请浏览罗姆官网
https://www.rohm.com.cn/emarmour

目录的阅读方法

- **关于 “ComfySIL™” 适用机型**
  本产品目录中刊载了 “ComfySIL™” 适用机型。
  ComfySIL™适用机型在项目中设有 “ComfySIL™” 栏。
  栏中以FSp、FSm、FSs字母缩写标示。

FSp: FS process compliant
FSm: FS mechanism implemented
FSs: FS supportive

- 正文中 *New* 表示新产品。
- 正文中☆表示开发中的产品。
- 正文中的 Nano 表示采用了罗姆先进电源技术的产品。
- 正文中的 MUS-IC 表示罗姆高端音频IC专用的产品“MUS-IC系列”。
- 正文中的 EMARMOUR 表示罗姆实现了业界超高级别的抗干扰性能产品。
- 点击正文中的 ⇨ 图标,可链接至罗姆官网的产品页。
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存储器

串行EEPROM

串行EEPROM

通用EEPROM

I^{2}C BUS EEPROM (2-Wire) BR24Gxxx-3系列(SCL频率=400kHz)

Part No.	Package and Suffix					Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	SCL Frequency (Max) (Hz)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030				Operating (mA)	Standby (μA)					
BR24G01	F-3	FJ-3	FVT-3	FVM-3	NUX-3	1K	128×8	1.6 to 5.5	2	2	5	400k	−40 to +85	10^6	40
BR24G02	F-3	FJ-3	FVT-3	FVM-3	NUX-3	2K	256×8	1.6 to 5.5	2	2	5	400k			
BR24G04	F-3	FJ-3	FVT-3	FVM-3	NUX-3	4K	512×8	1.6 to 5.5	2	2	5	400k			
BR24G08	F-3	FJ-3	FVT-3	FVM-3	NUX-3	8K	1K×8	1.6 to 5.5	2	2	5	400k			
BR24G16	F-3	FJ-3	FVT-3	FVM-3	NUX-3	16K	2K×8	1.6 to 5.5	2	2	5	400k			
BR24G32	F-3	FJ-3	FVT-3	FVM-3	NUX-3	32K	4K×8	1.6 to 5.5	2	2	5	400k			
BR24G64	F-3	FJ-3	FVT-3	FVM-3	NUX-3	64K	8K×8	1.6 to 5.5	2	2	5	400k			
BR24G128	F-3	FJ-3	FVT-3	FVM-3	NUX-3	128K	16K×8	1.6 to 5.5	2.5	2	5	400k			
BR24G256	F-3	FJ-3	FVT-3	–	–	256K	32K×8	1.6 to 5.5	2.5	2	5	400k			

I^{2}C BUS EEPROM (2-Wire) BR24Gxxx-3A系列(SCL频率=1MHz)

Part No.	Package and Suffix					Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	SCL Frequency (Max) (Hz)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030				Operating (mA)	Standby (μA)					
BR24G01	F-3A	FJ-3A	FVT-3A	FVM-3A	NUX-3A	1K	128×8	1.7 to 5.5	2	2	5	1M	−40 to +85	10^6	40
BR24G02	F-3A	FJ-3A	FVT-3A	FVM-3A	NUX-3A	2K	256×8	1.7 to 5.5	2	2	5	1M			
BR24G04	F-3A	FJ-3A	FVT-3A	FVM-3A	NUX-3A	4K	512×8	1.7 to 5.5	2	2	5	1M			
BR24G08	F-3A	FJ-3A	FVT-3A	FVM-3A	NUX-3A	8K	1K×8	1.7 to 5.5	2	2	5	1M			
BR24G16	F-3A	FJ-3A	FVT-3A	FVM-3A	NUX-3A	16K	2K×8	1.7 to 5.5	2	2	5	1M			

I^{2}C BUS EEPROM (2-Wire) BR24Gxxx-5x系列(SCL频率=1MHz、改写次数400万次)

Part No.	Package and Suffix					Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	SCL Frequency (Max) (Hz)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030				Operating (mA)	Standby (μA)					
BR24G32	F-5	FJ-5	FVT-5	FVM-5	NUX-5	32K	4K×8	1.6 to 5.5	2	2.5	5	1M	−40 to +85	4×10^6	200
BR24G64	F-5	FJ-5	FVT-5	FVM-5	NUX-5	64K	8K×8	1.6 to 5.5	2	2.5	5	1M			
BR24G128	F-5	FJ-5	FVT-5	FVM-5	NUX-5	128K	16K×8	1.6 to 5.5	2	2.5	5	1M			
BR24G256	F-5	FJ-5	FVT-5	FVM-5	NUX-5	256K	32K×8	1.6 to 5.5	2	2.5	5	1M			
BR24G512	F-5A	FJ-5A	FVT-5A	FVM-5A	–	512K	64K×8	1.6 to 5.5	3	5	3.5	1M			
BR24G1M	F-5A	FJ-5A	FVT-5A	–	–	1M	128K×8	1.7 to 5.5	3	5	3.5	1M			

通用EEPROM

SPI BUS EEPROM BR25Gxxx-3系列

Part No.	Package and Suffix					Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (˚C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030				Operating (mA)	Standby (μA)				
BR25G320	F-3	FJ-3	FVT-3	FVM-3	NUX-3	32K	4K×8	1.6 to 5.5	8	2	5	−40 to +85	10^6	100
BR25G640	F-3	FJ-3	FVT-3	FVM-3	NUX-3	64K	8K×8	1.6 to 5.5	8	2	5			
BR25G128	F-3	FJ-3	FVT-3	FVM-3	NUX-3	128K	16K×8	1.6 to 5.5	8	2	5			
BR25G256	F-3	FJ-3	FVT-3	–	–	256K	32K×8	1.6 to 5.5	8	2	5			
BR25G512	F-3	FJ-3	FVT-3	–	–	512K	64K×8	1.8 to 5.5	4	1	5			
BR25G1M	F-3	FJ-3	–	–	–	1M	128K×8	1.8 to 5.5	4	1	5			

SPI BUS EEPROM BR25Gxxx5A系列

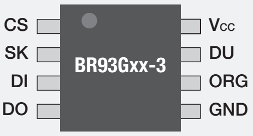
Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (˚C)	Endurance (times)	Data Retention (years)
	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030				Operating (mA)	Standby (μA)				
New **BR25G128**	FJ-5A	FVT-5A	FVM-5A	NUX-5A	128K	16K×8	1.6 to 5.5	8	2.5	3.5	−40 to +85	4×10^6	200
New **BR25G256**	FJ-5A	FVT-5A	FVM-5A	NUX-5A	256K	32K×8	1.6 to 5.5	8	2.5	3.5		4×10^6	200
New **BR25G512**	FJ-5A	FVT-5A	FVM-5A	–	512K	64K×8	1.6 to 5.5	8	5	3.5		4×10^6	200
New **BR25G1M**	FJ-5A	FVT-5A	–	–	1M	128K×8	1.8 to 5.5	8	5	3.5		4×10^6	200

Microwire BUS EEPROM (3-Wire) BR93Gxx-3/3A/3B系列

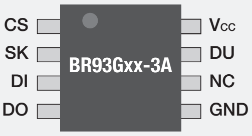
Part No.	Package and Suffix					Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (˚C)	Endurance (times)	Data Retention (years)
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030				Operating (mA)	Standby (μA)				
BR93G46	F-3*1/ F-3A*2/ F-3B*3	FJ-3*1/ FJ-3A*2/ FJ-3B*3	FVT-3*1/ FVT-3A*2/ FVT-3B*3	FVM-3*1/ FVM-3A*2/ FVM-3B*3	NUX-3*1/ NUX-3A*2	1K	64×16 (128×8)	1.7 to 5.5	3	2	5	−40 to +85	10^6	40
BR93G56	F-3*1/ F-3A*2/ F-3B*3	FJ-3*1/ FJ-3A*2	FVT-3*1/ FVT-3A*2/ FVT-3B*3	FVM-3*1/ FVM-3A*2/ FVM-3B*3	NUX-3*1/ NUX-3A*2/ NUX-3B*3	2K	128×16 (256×8)	1.7 to 5.5	3	2	5			
BR93G66	F-3*1/ F-3A*2/ F-3B*3	FJ-3*1/ FJ-3A*2/ FJ-3B*3	FVT-3*1/ FVT-3A*2/ FVT-3B*3	FVM-3*1/ FVM-3A*2/ FVM-3B*3	NUX-3*1/ NUX-3A*2/ NUX-3B*3	4K	256×16 (512×8)	1.7 to 5.5	3	2	5			
BR93G76	F-3*1/ F-3A*2/ F-3B*3	FJ-3*1/ FJ-3A*2	FVT-3*1/ FVT-3A*2	FVM-3*1/ FVM-3A*2/ FVM-3B*3	NUX-3*1/ NUX-3A*2/ NUX-3B*3	8K	512×16 (1K×8)	1.7 to 5.5	3	2	5			
BR93G86	F-3*1/ F-3A*2/ F-3B*3	FJ-3*1/ FJ-3A*2/ FJ-3B*3	FVT-3*1/ FVT-3A*2	FVM-3*1/ FVM-3A*2/ FVM-3B*3	NUX-3*1/ NUX-3A*2/ NUX-3B*3	16K	1K×16 (2K×8)	1.7 to 5.5	3	2	5			

Microwire BUS EEPROM (3-Wire) BR93Gxx-3/3A/3B系列: *1 向ORG PIN输入后，在硬件上可选择16bit或8bit的数据格式 *2 1PIN为CS PIN *3 3PIN为CS PIN

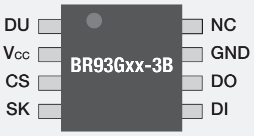
Microwire BUS Pin Assignment



可选择位形式
(8bit or 16bit)



BR93LxxRxx-W系列兼容



旋转引脚

WL-CSP EEPROM

Part No.	I/F	Density (bit)	Package					Pull-up Resister	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (˚C)	Data Retention (years)
			Package Name	Size (mm)	Thickness (mm) (Max)	Ball Pitch (mm)	RESIN COATING				Operating (mA)	Standby (μA)			
BU9833GUL-W	I^2C	2K	VCSP50L1	x: 1.27 y: 1.50	0.55	0.5	✓	–	256×8	1.7 to 5.5	2	2	5	−40 to +85	40
BU9847GUL-W		4K	VCSP50L1	x: 1.95 y: 1.06	0.55	0.5	✓	–	512×8	1.7 to 5.5	2	2	5	−40 to +85	40
BU9889GUL-W		8K	VCSP50L1	x: 1.60 y: 1.00	0.55	0.5	✓	–	1K×8	1.7 to 5.5	2	2	5	−40 to +85	40
BRCB008GWZ-3		8K	UCSP30L1	x: 0.94 y: 0.94	0.33	0.4	–	–	1K×8	1.7 to 3.6	2	2	5	−40 to +85	40
BRCB016GWL-3U		16K	UCSP50L1	x: 1.10 y: 1.15	0.55	0.4	✓	–	2K×8	1.7 to 3.6	2	2	5	−40 to +85	40
BRCD016GWZ-3		16K	UCSP35L1	x: 1.30 y: 0.77	0.40	0.4	✓	–	2K×8	1.7 to 3.6	2	2	5	−40 to +85	40
BRCG016GWZ-3		16K	UCSP30L1A	x: 0.82 y: 0.82	0.33	0.4	✓	–	2K×8	1.7 to 5.5	2	2	5	−40 to +85	40
BRCF016GWZ-3		16K	UCSP30L1	x: 0.86 y: 0.84	0.35	0.4	–	–	2K×8	1.7 to 5.5	2	2	5	−40 to +85	40
BRCA016GWZ-W		16K	UCSP30L1	x: 1.30 y: 0.77	0.35	0.4	–	–	2K×8	1.7 to 3.6	2	2	5	−40 to +85	40
BRCB032GWZ-3		32K	UCSP30L1	x: 1.45 y: 0.77	0.33	0.4	–	–	4K×8	1.6 to 5.5	2	2	5	−40 to +85	40
BRCH064GWZ-3		64K	UCSP30L1A	x: 1.50 y: 1.00	0.33	0.4	✓	–	8K×8	1.6 to 5.5	2	2	5	−40 to +85	40
BRCB064GWZ-3		64K	UCSP30L1	x: 1.50 y: 1.00	0.35	0.4	–	WP	8K×8	1.6 to 5.5	3.9	2	5	−40 to +85	40
BRCE064GWZ-3		64K	UCSP25L1	x: 1.50 y: 1.00	0.30	0.4	–	–	8K×8	1.6 to 5.5	2	2	5	−40 to +85	40
BU9897GUL-W		128K	VCSP50L2	x: 2.44 y: 1.99	0.55	0.5	✓	–	16K×8	1.7 to 5.5	2.5	2	5	−40 to +85	40
BU9832GUL-W	SPI	8K	VCSP50L2	x: 2.09 y: 1.85	0.55	0.5	✓	–	1K×8	1.8 to 5.5	3	2	5	−40 to +85	40
BU9829GUL-W		16K	VCSP50L1	x: 1.74 y: 1.65	0.55	0.5	✓	–	2K×8	1.6 to 3.6	2	1	5	−30 to +85	10
BR25S128GUZ-W		128K	VCSP35L2	x: 2.00 y: 2.63	0.40	0.5	✓	–	16K×8	1.7 to 5.5	2*	2	5	−40 to +85	40
BU9891GUL-W	MW	4K	VCSP50L1	x: 1.60 y: 1.00	0.55	0.5	✓	–	256×16	1.7 to 5.5	3	2	5	−40 to +85	40

WL-CSP EEPROM: *V_{CC}=2.5V

Plug & Play用EEPROM 用于存储器模块

Part No.	Package and Suffix		Bit Format (word×bit)	Supply Voltage (V)	Clock Frequency (kHz)	Write Cycle Time (ms)	Endurance (times)	Data Retention (years)	Write Protect
	TSSOP-B8	VSON008X2030							
BR34L02	FVT-W	–	256×8	1.7 to 5.5	100*1/400*2	5	10^6	40	Onetime ROM write protect
BR34E02	FVT-3/FVT-W	NUX-3/NUX-W	256×8	1.7 to 5.5/ 1.7 to 3.6	400	5	10^6	40	Settable write protect Onetime ROM write protect

Plug & Play用EEPROM 用于存储器模块: *1 V_{CC}=1.7 to 5.5V *2 V_{CC}=2.5 to 5.5V

Plug & Play用EEPROM 用于显示器

Part No.	Package and Suffix							Function Descriptions	Bit Format (word×bit)	Supply Voltage (V)	Clock Frequency (MHz)	Write Cycle Time (ms)
	SOP8	SOP-J8	SSOP-B8	SOP14	SSOP-B14	SSOP-B16	VSON008X2030					
BR24C21	F	FJ	FV	–	–	–	–	Supports DDC1/DDC2 for displays	128×8	2.5 to 5.5	100/400	10
BU9882	–	–	–	F-W	FV-W	–	–	Dual-port type compatible with DDC2 for displays	128×8×2ch	2.5 to 5.5	100/400	10
BU9883	–	–	–	–	–	FV-W	–	2Kbit×3ch EEPROM for HDMI ports	256×8×3ch	3.0 to 5.5	400	5
BU99022	–	–	–	–	–	–	NUX-3	2Kbit×2ch type	256×8×2ch	1.7 to 5.5	400	5

车载用EEPROM

125˚C工作 I^{2}C BUS EEPROM (2-Wire) BR24Hxxx-5AC系列

Part No.	Package and Suffix						Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (˚C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030	VSON08AX2030				Operating (mA)	Standby (µA)						
BR24H01	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	1K	128×8	1.7 to 5.5	1.7	10	3.5	−40 to +125	$4×10^6$	100	FSs	YES
BR24H02	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	2K	256×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H04	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	4K	512×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H08	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	8K	1K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H16	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	16K	2K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H32	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	32K	4K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H64	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	ANUX-5AC	64K	8K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H128	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	–	128K	16K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H256	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	–	256K	32K×8	1.7 to 5.5	1.7	10	3.5				FSs	
BR24H512	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	–	–	512K	64K×8	1.7 to 5.5	3	20	3.5				FSs	
BR24H1M	F-5AC	FJ-5AC	FVT-5AC	–	–	–	1M	128K×8	2.5 to 5.5	3	20	3.5				FSs	

105˚C工作 I^{2}C BUS EEPROM (2-Wire) BR24Axx-WM系列

Part No.	Package and Suffix			Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (˚C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	MSOP8				Operating (mA)	Standby (µA)						
BR24A01A	F-WM	FJ-WM	–	1K	128×8	2.5 to 5.5	2	2	5	−40 to +105	10^6	40	FSs	YES
BR24A02	F-WM	FJ-WM	FVM-WM	2K	256×8	2.5 to 5.5	2	2	5				FSs	
BR24A04	F-WM	FJ-WM	–	4K	512×8	2.5 to 5.5	2	2	5				FSs	
BR24A08	F-WM	FJ-WM	–	8K	1K×8	2.5 to 5.5	2	2	5				FSs	
BR24A16	F-WM	FJ-WM	–	16K	2K×8	2.5 to 5.5	2	2	5				FSs	
BR24A32	F-WM	–	–	32K	4K×8	2.5 to 5.5	3	2	5				FSs	
BR24A64	F-WM	–	–	64K	8K×8	2.5 to 5.5	3	2	5				FSs	

85˚C工作 I^{2}C BUS EEPROM (2-Wire) BR24Txx-3AM系列

Part No.	Package and Suffix			Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (˚C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8				Operating (mA)	Standby (µA)						
BR24T512	F-3AM	FJ-3AM	FVT-3AM	512K	64K×8	1.7 to 5.5	4.5	3	5	−40 to +85	10^6	40	FSs	YES
BR24T1M	F-3AM	FJ-3AM	–	1M	128K×8	1.7 to 5.5	4.5	3	5				FSs	

125˚C工作 Microwire BUS EEPROM (3-Wire) BR93Hxx-2C系列

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (˚C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (µA)						
BR93H46	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	1K	64×16	2.5 to 5.5	3	10	4	−40 to +125	10^6	100	FSs	YES
BR93H56	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	2K	128×16	2.5 to 5.5	3	10	4				FSs	
BR93H66	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	4K	256×16	2.5 to 5.5	3	10	4				FSs	
BR93H76	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	8K	512×16	2.5 to 5.5	3	10	4				FSs	
BR93H86	RF-2C	RFJ-2C	RFVT-2C	RFVM-2C	16K	1K×16	2.5 to 5.5	3	10	4				FSs	

105˚C工作 Microwire BUS EEPROM (3-Wire) BR93Axx-WM系列

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (˚C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (µA)						
BR93A46	RF-WM	RFJ-WM	RFVT-WM	RFVM-WM	1K	64×16	2.5 to 5.5	3	2	5	−40 to +105	10^6	40	FSs	YES
BR93A56	RF-WM	RFJ-WM	RFVT-WM	RFVM-WM	2K	128×16	2.5 to 5.5	3	2	5				FSs	
BR93A66	–	RFJ-WM	RFVT-WM	RFVM-WM	4K	256×16	2.5 to 5.5	3	2	5				FSs	
BR93A76	RF-WM	RFJ-WM	RFVT-WM	RFVM-WM	8K	512×16	2.5 to 5.5	3	2	5				FSs	
BR93A86	–	RFJ-WM	RFVT-WM	RFVM-WM	16K	1K×16	2.5 to 5.5	3	2	5				FSs	

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车载用EEPROM

125℃工作 内置ECC功能 SPI BUS EEPROM BR25Hxxx-5AC系列

Part No.	Package and Suffix						Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8	VSON008X2030	VSON08AX2030				Operating (mA)	Standby (µA)						
BR25H010	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	1K	128×8	1.7 to 5.5	8	10	3.5	−40 to +125	4×10^6	100	FSs	YES
BR25H020	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	2K	256×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H040	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	4K	512×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H080	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	8K	1K×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H160	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	ANUX-5AC	16K	2K×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H320	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	—	32K	4K×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H640	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	—	64K	8K×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H128	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	—	128K	16K×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H256	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	NUX-5AC	—	256K	32K×8	1.7 to 5.5	8	10	3.5				FSs	
BR25H512	F-5AC	FJ-5AC	FVT-5AC	FVM-5AC	—	—	512K	64K×8	1.7 to 5.5	8	20	3.5				FSs	
BR25H1M	F-5AC	FJ-5AC	FVT-5AC	—	—	—	1024K	128K×8	1.7 to 5.5	8	20	3.5				FSs	

125℃工作 内置ECC功能 SPI BUS EEPROM BR25Hxxx-2AC系列

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (µA)						
BR25H640	F-2AC	FJ-2AC	FVT-2AC	FVM-2AC	64K	8K×8	2.5 to 5.5	5.5	10	4	−40 to +125	10^6	100	FSs	YES
BR25H128	F-2AC	FJ-2AC	FVT-2AC	—	128K	16K×8	2.5 to 5.5	5.5	10	4				FSs	
BR25H256	F-2AC	FJ-2AC	—	—	256K	32K×8	2.5 to 5.5	5.5	10	4				FSs	

125℃工作 SPI BUS EEPROM BR25Hxxx-2C系列

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (µA)						
BR25H010	F-2C	FJ-2C	FVT-2C	FVM-2C	1K	128×8	2.5 to 5.5	4	10	4	−40 to +125	10^6	100	FSs	YES
BR25H020	F-2C	FJ-2C	FVT-2C	FVM-2C	2K	256×8	2.5 to 5.5	4	10	4				FSs	
BR25H040	F-2C	FJ-2C	FVT-2C	FVM-2C	4K	512×8	2.5 to 5.5	4	10	4				FSs	
BR25H080	F-2C	FJ-2C	FVT-2C	FVM-2C	8K	1K×8	2.5 to 5.5	4	10	4				FSs	
BR25H160	F-2C	FJ-2C	FVT-2C	FVM-2C	16K	2K×8	2.5 to 5.5	4	10	4				FSs	
BR25H320	F-2C	FJ-2C	FVT-2C	FVM-2C	32K	4K×8	2.5 to 5.5	4	10	4				FSs	
BR25H640	F-2C	FJ-2C	FVT-2C	—	64K	8K×8	2.5 to 5.5	5.5	10	4				FSs	
BR25H128	F-2C	FJ-2C	—	—	128K	16K×8	2.5 to 5.5	5.5	10	4				FSs	

105℃工作 SPI BUS EEPROM BR25Axxx-3M系列

Part No.	Package and Suffix				Density (bit)	Bit Format (word×bit)	Supply Voltage (V)	Current Consumption (Max)		Write Cycle Time (Max) (ms)	Operating Temperature (°C)	Endurance (times)	Data Retention (years)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	SOP8	SOP-J8	TSSOP-B8	MSOP8				Operating (mA)	Standby (µA)						
BR25A256	F-3M	FJ-3M	FVT-3M	—	256K	32K×8	2.5 to 5.5	4	10	5	−40 to +105	10^6	100	FSs	YES
BR25A512	F-3M	FJ-3M	FVT-3M	—	512K	64K×8	2.5 to 5.5	4	10	5				FSs	
BR25A1M	F-3M	FJ-3M	—	—	1M	128K×8	2.5 to 5.5	4	10	5				FSs	

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*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。

运算放大器/比较器

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

运算放大器

比较器

运算放大器

高性能(具有多个特点的产品)

车载用 轨到轨输入输出 高性能运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New **LMR376Y**	1	2.5 to 5.5	0.85	0.19	0.0005	55	V_{SS} to V_{DD}	V_{SS}+0.005 to V_{DD}−0.007	140	100	110	1.1	3.2	5.5	−40 to +125	SSOP5	G-C	FSs	YES
Nano **BD7280Y**	1	2.5 to 5.5	1.7	1.6	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.010 to V_{DD}−0.010	115	100	100	10	7	12	−40 to +125	SSOP6	G-C	FSs	YES
Nano **BD7281Y**	1	2.5 to 5.5	1.7	1.6	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.010 to V_{DD}−0.010	115	100	100	10	7	12	−40 to +125	SSOP5	G-C	FSs	YES
TLR376Y	1	2.5 to 5.5	0.645	0.15	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.015 to V_{DD}−0.025	137	100	95	2	4	8	−40 to +125	SSOP5	G-C	FSs	YES
TLR2376Y	2	2.5 to 5.5	1.245	0.15	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.015 to V_{DD}−0.025	137	100	95	2	4	8	−40 to +125	MSOP8 SOP-J8	FVM-C FJ-C	FSs FSs	YES YES
TLR4376Y	4	2.5 to 5.5	2.49	0.15	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.015 to V_{DD}−0.025	137	100	95	2	4	8	−40 to +125	SSOP-B14	FV-C	FSs	YES
TLR377Y	1	2.5 to 5.5	0.645	1.2	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.015 to V_{DD}−0.025	137	100	95	2	4	8	−40 to +125	SSOP5	G-C	FSs	YES
TLR2377Y	2	2.5 to 5.5	1.245	1.2	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.015 to V_{DD}−0.025	137	100	95	2	4	8	−40 to +125	MSOP8 SOP-J8	FVM-C FJ-C	FSs FSs	YES YES
TLR4377Y	4	2.5 to 5.5	2.49	1.2	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.015 to V_{DD}−0.025	137	100	95	2	4	8	−40 to +125	SSOP-B14	FV-C	FSs	YES

车载用 高性能运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
LMR1802Y	1	2.5 to 5.5	1.1	0.45	0.0005	3.5	V_{SS} to V_{DD}−1.0	V_{SS}+0.004 to V_{DD}−0.007	140	105	125	1.1	4.4	2.9	−40 to +125	SSOP5	G-C	FSs	YES
LMR1801Y	1	2.2 to 5.5	0.95	0.95	0.0005	3.5	V_{SS} to V_{DD}−1.0	V_{SS}+0.003 to V_{DD}−0.007	140	100	110	2.5	6	5	−40 to +125	SSOP5	G-C	FSs	YES
LMR1803Y	1	2.2 to 5.5	1	0.15	0.0005	3.5	V_{SS} to V_{DD}−1.0	V_{SS}+0.003 to V_{DD}−0.007	140	100	110	2.5	6	5	−40 to +125	SSOP5	G-C	FSs	YES

轨到轨输入输出 高性能运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
Nano **BD7282**	2	2.5 to 5.5	3.4	1.6	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.010 to V_{DD}−0.010	115	100	100	10	7	12	−40 to +125	MSOP8	FVM-LB
Nano **BD7284**	4	2.5 to 5.5	6.8	1.6	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.010 to V_{DD}−0.010	115	100	100	10	7	12	−40 to +125	SOP14	F-LB
TLR377	1	2.5 to 5.5	0.585	1.4	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.015 to V_{DD}−0.025	137	100	95	2	4	12	−40 to +125	HVSOF5	HFV-LB
BD5291	1	1.7 to 5.5	0.65	2.5	0.001	17	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	110	90	90	2.5	3.2	18	−40 to +85	SSOP5 VSOF5 UCSP50L1	G FVE GWL

高性能运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
LMR1802	1	2.5 to 5.5	1.1	0.45	0.0005	3.5	V_{SS} to V_{DD}−1.0	V_{SS}+0.005 to V_{DD}−0.007	140	105	125	1.1	3	2.9	−40 to +125	SSOP5	G-LB
LMR1801	1	2.2 to 5.5	0.95	0.9	0.0005	3.5	V_{SS} to V_{DD}−1.0	V_{SS}+0.005 to V_{DD}−0.007	140	100	125	2.5	6	5	−40 to +125	SSOP5 HVSOF5	G-LB HFV-LB
LMR1803	1	2.2 to 5.5	1	0.15	0.0005	3.5	V_{SS} to V_{DD}−1.0	V_{SS}+0.003 to V_{DD}−0.007	140	100	110	2.5	6	5	−40 to +125	SSOP5	G-LB

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低偏置(输入偏置电压⩽2.5mV)

车载用 轨到轨输入输出 低偏置运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) ($nV/\sqrt{Hz}$)	Operating temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New **LMR1001Y**	1	2.7 to 5.5	0.85	0.012	0.15	35	V_{SS} to V_{DD}	$V_{SS}+0.010$ to $V_{DD}-0.020$	145	130	115	1.3	1.5	70	−40 to +125	SOP8	F-C	FSs	YES

轨到轨输入输出 低偏置运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) ($nV/\sqrt{Hz}$)	Operating temperature (°C)	Package	Part No. Suffix
New EMARMOUR **BD87522**	2	4 to 15	3.95	1	0.001	16.5	V_{SS} to V_{DD}	$V_{SS}+0.03$ to $V_{DD}-0.05$	110	85	90	2.4	—	50	−40 to +125	SSOP-B14	FV-LB
New EMARMOUR **BD87524**	4	4 to 15	7.9	1	0.001	16.5	V_{SS} to V_{DD}	$V_{SS}+0.03$ to $V_{DD}-0.05$	110	85	90	2.4	—	50	−40 to +125	SSOP-B14	FV-LB

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低噪声(输入电压噪声密度⩽20nV/√Hz)

车载用 低噪声运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) ($nV/\sqrt{Hz}$)	Operating temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA4580Y	2	4 to 32	6	3	100	—	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+1.5$ to $V_{CC}-1.5$	110	110	110	5	10	5	−40 to +105	SOP8	F-M	FSs	YES
																MSOP8	FVM-M	FSs	YES
BA4584Y	4	4 to 32	11	3	100	—	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+1.5$ to $V_{CC}-1.5$	110	110	110	5	10	5	−40 to +105	SSOP-B14	FV-M	FSs	YES
BA4560Y	2	8 to 30	3	6	50	25	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	90	90	4	4	8	−40 to +105	SOP8	F-M	FSs	YES
																SSOP-B8	FV-M	FSs	YES
																MSOP8	FVM-M	FSs	YES
BA4558Y	2	8 to 30	3	6	60	—	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	90	90	1	2	12	−40 to +105	SOP8	F-M	FSs	YES
																SSOP-B8	FV-M	FSs	YES
																MSOP8	FVM-M	FSs	YES

轨到轨输入输出 低噪声运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) ($nV/\sqrt{Hz}$)	Operating temperature (°C)	Package	Part No. Suffix
BD12730	1	1.8 to 5.5	0.32	5	50	5	GND to V+	GND+0.05 to V+−0.05	85	70	85	0.4	1	10	−40 to +85	SSOP5	G
BD12732	2	1.8 to 5.5	0.58	5	50	5	GND to V+	GND+0.05 to V+−0.05	85	70	85	0.4	1	10	−40 to +85	SOP8	F
																SOP-J8	FJ
																SSOP-B8	FV
																TSSOP-B8J	FVJ
																MSOP8	FVM
																TSSOP-B8	FVT
BD12734	4	1.8 to 5.5	1.2	5	50	5	GND to V+	GND+0.05 to V+−0.05	85	70	85	0.4	1	10	−40 to +85	SOP14	F
																SOP-J14	FJ
																SSOP-B14	FV
																TSSOP-B14J	FVJ

低噪声运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) ($nV/\sqrt{Hz}$)	Operating temperature (°C)	Package	Part No. Suffix
LM4565	2	4 to 36	4.5	1.5	70	130	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	100	100	5	10	5	−40 to +85	SOP8	F
																SOP-J8	FJ
																SSOP-B8	FV
																TSSOP-B8	FVT
																MSOP8	FVM
																TSSOP-B8J	FVJ
LM4559	2	8 to 36	3.3	1.5	40	—	$V_{EE}+2.0$ to $V_{CC}-2.0$	$V_{EE}+2.0$ to $V_{DD}-2.0$	110	100	100	3.5	4	5	−40 to +85	SOP8	F
																SOP-J8	FJ
																SSOP-B8	FV
																TSSOP-B8	FVT
																MSOP8	FVM
																TSSOP-B8J	FVJ
BA4564W	4	8 to 30	6	2.5	50	25	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	90	90	4	4	8	−40 to +105	SSOP-B14	FV
BA4564R	4	8 to 30	6	6	50	25	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	90	90	4	4	8	−40 to +105	SSOP-B14	FV
BA4510	2	2 to 7	5	6	80	10	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+0.1$ to $V_{CC}-0.1$	90	80	80	5	10	6	−20 to +75	SOP8	F
																SSOP-B8	FV
															−40 to +75	MSOP8	FVM
																TSSOP-B8	FVT
BA4584	4	4 to 32	12	3	100	—	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+1.5$ to $V_{CC}-1.5$	110	110	110	5	5	5	−40 to +85	SSOP-B14	FV
BA4584R	4	4 to 19	11	3	100	—	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+1.5$ to $V_{CC}-1.5$	110	110	110	5	5	5	−40 to +105	SOP14	F
																SSOP-B14	FV

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*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。

高速(GBW≥5MHz)

车载用 高速运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
LMR1701Y	1	2.7 to 5.5	9.6	6	0.0026	200	V_{SS} to V_{DD}−0.9	V_{SS}+0.020 to V_{DD}−0.015	120	80	86	80	150	3	−40 to +125	SSOP6	G-C	FSs	YES

高速运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
LMR1701	1	2.7 to 5.5	9.6	6	0.0026	200	V_{SS} to V_{DD}−0.9	V_{SS}+0.02 to V_{DD}−0.015	120	80	86	80	150	3	−40 to +125	SSOP6	G-LB
Nano EMARMOUR **BD77501**	1	7 to 15	1.3	27	0.001	7.5	V_{SS} to V_{DD}−2.0	V_{SS}+0.07 to V_{DD}−0.06	75	70	70	10	8	—	−40 to +85	SSOP5	G
Nano EMARMOUR **BD77502**	2	7 to 15	2.6	27	0.001	7.5	V_{SS} to V_{DD}−2.0	V_{SS}+0.07 to V_{DD}−0.06	75	70	70	10	8	—	−40 to +85	MSOP8	FVM
Nano EMARMOUR **BD77504**	4	7 to 15	5.2	27	0.001	7.5	V_{SS} to V_{DD}−2.0	V_{SS}+0.07 to V_{DD}−0.06	75	70	70	10	8	—	−40 to +85	SSOP-B14	FV
BU7485/ BU7485S	1	3.0 to 5.5	1.5	9.5	0.001	8	V_{SS} to V_{DD}−1.4	V_{SS}+0.1 to V_{DD}−0.1	105	60	80	10	10	—	−40 to +85/ −40 to +105	SSOP5	G
BU7486/ BU7486S	2	3.0 to 5.5	3	9.5	0.001	8	V_{SS} to V_{DD}−1.4	V_{SS}+0.1 to V_{DD}−0.1	105	60	80	10	10	—	−40 to +85/ −40 to +105	SOP8	F
																SSOP-B8	FV
																MSOP8	FVM
BU7487/ BU7487S	4	3.0 to 5.5	6	9.5	0.001	8	V_{SS} to V_{DD}−1.4	V_{SS}+0.1 to V_{DD}−0.1	105	60	80	10	10	—	−40 to +85/ −40 to +105	SOP14	F
																SSOP-B14	FV
LMR821	1	2.5 to 5.5	0.325	3.5	40	40	V_{SS} to V_{DD}−0.9	V_{SS}+0.1 to V_{DD}−0.1	105	90	85	2	5.5	30	−40 to +85	SSOP5	G
LMR822	2	2.5 to 5.5	0.65	5	40	40	V_{SS} to V_{DD}−0.9	V_{SS}+0.1 to V_{DD}−0.1	105	90	85	2	5.5	30	−40 to +85	SOP8	F
																SOP-J8	FJ
																SSOP-B8	FV
																TSSOP-B8J	FVJ
																MSOP8	FVM
																TSSOP-B8	FVT
LMR824	4	2.5 to 5.5	1.13	5	40	40	V_{SS} to V_{DD}−0.9	V_{SS}+0.1 to V_{DD}−0.1	105	90	85	2	5.5	30	−40 to +85	SOP14	F
																SOP-J14	FJ
																TSSOP-B14J	FVJ
BA2107	1	2 to 14	1.8	6	150	1.4	V_{EE}+1.5 to V_{CC}−1.5	V_{SS}+0.2 to V_{DD}−0.2	80	74	80	4	12	—	−40 to +85	SSOP5	G

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

Nano Nano Cap

Nano 标记为采用Nano Pulse Control™ 技术、Nano Energy™ 技术或Nano Cap™ 技术的产品。Nano是实现小型化和节能的罗姆创新型电源技术。
上述 Nano 标记为采用Nano Cap™ 超稳定控制技术的产品。Nano Pulse Control™、Nano Energy™ 和Nano Cap™ 是ROHM Co., Ltd.的商标或注册商标。

EMARMOUR

EMARMOUR 标志为实现业内超高级别抗噪声性能的产品。
EMARMOUR™ 是ROHM Co., Ltd.的商标或注册商标。

低消耗电流(电路电流≤100μA/ch)

车载用 轨到轨输入输出 低消耗电流运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (μA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU7241Y	1	1.8 to 5.5	70	10	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.05 to V_{DD}−0.05	100	70	80	0.4	1.0	—	−40 to +125	SSOP5	G-C	FSs	YES
BU7242Y	2	1.8 to 5.5	180	10	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.05 to V_{DD}−0.05	100	70	80	0.4	1.0	—	−40 to +125	MSOP8	FVM-C	FSs	YES
BU7244Y	4	1.8 to 5.5	360	10	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.05 to V_{DD}−0.05	100	70	80	0.4	1.0	—	−40 to +125	SSOP-B14	FV-C	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

低消耗电流(电路电流≤100μA/ch)

轨到轨输入输出 低消耗电流运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (μA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
BU7265/BU7265S	1	1.8 to 5.5	0.35	8.5	0.001	2.4	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.0024	0.004	–	−40 to +85/−40 to +105	SSOP5	G
BU7266/BU7266S	2	1.8 to 5.5	0.7	8.5	0.001	2.4	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.0024	0.004	–	−40 to +85/−40 to +105	SOP8 SSOP-B8 MSOP8	F FV FVM
BU7205/BU7205S	1	1.8 to 5.5	0.4	9.5	0.001	1.2	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.0025	0.0025	–	−40 to +85/−40 to +105	HVSOF5	HFV
BU7245/BU7245S	1	1.8 to 5.5	5	8.5	0.001	4	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.035	0.07	–	−40 to +85/−40 to +105	HVSOF5	HFV
BU7271/BU7271S	1	1.8 to 5.5	8.6	8	0.001	4	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	100	60	80	0.05	0.09	–	−40 to +85/−40 to +105	SSOP5	G
BU7275/BU7275S	1	1.8 to 5.5	40	6	0.001	8	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.3	0.6	–	−40 to +85/−40 to +105	HVSOF5	HFV
LMR931	1	1.8 to 5.0	85	4	5	80	V_{SS} to V_{DD}	$V_{SS}+0.037$ to $V_{DD}-0.04$	101	94	85	0.42	1.5	50	−40 to +85	SSOP5	G
LMR932	2	1.8 to 5.0	140	5.5	5	80	V_{SS} to V_{DD}	$V_{SS}+0.037$ to $V_{DD}-0.04$	101	94	85	0.42	1.5	50	−40 to +85	SOP8 SOP-J8 SSOP-B8 TSSOP-B8J MSOP8 TSSOP-B8	F FJ FV FVJ FVM FVT
LMR934	4	1.8 to 5.0	290	5.5	5	80	V_{SS} to V_{DD}	$V_{SS}+0.037$ to $V_{DD}-0.04$	101	94	85	0.42	1.5	50	−40 to +85	SOP14 SOP-J14 SSOP-B14 TSSOP-B14J	F FJ FV FVJ
LMR981	1	1.8 to 5.0	85	4	5	80	V_{SS} to V_{DD}	$V_{SS}+0.037$ to $V_{DD}-0.04$	101	94	85	0.42	1.5	50	−40 to +85	SSOP6	G
LMR982	2	1.8 to 5.0	140	5.5	5	80	V_{SS} to V_{DD}	$V_{SS}+0.037$ to $V_{DD}-0.04$	101	94	85	0.42	1.5	50	−40 to +85	MSOP10	FVM
BU7241/BU7241S	1	1.8 to 5.5	70	9	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.4	0.9	–	−40 to +85/−40 to +105	SSOP5	G
BU7242/BU7242S	2	1.8 to 5.5	180	9	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.4	0.9	–	−40 to +85/−40 to +105	SOP8 MSOP8 VSON008X2030	F FVM NUX
BU7244/BU7244S	4	1.8 to 5.5	360	9	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.4	0.9	–	−40 to +85/−40 to +105	SOP14 SSOP-B14	F FV

低消耗电流运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (μA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
BU7411/BU7411S	1	1.6 to 5.5	0.35	8	0.001	2.4	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.0024	0.004	–	−40 to +85/−40 to +105	SSOP5	G
BU7421/BU7421S	1	1.7 to 5.5	8.5	6	0.001	4	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	100	60	80	0.05	0.09	–	−40 to +85/−40 to +105	SSOP5	G
BU7475/BU7475S	1	1.7 to 5.5	9	6.5	0.001	7	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	100	60	80	0.05	0.1	–	−40 to +85/−40 to +105	HVSOF5	HFV
BU7445/BU7445S	1	1.7 to 5.5	40	6	0.001	8	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	100	60	80	0.25	0.4	–	−40 to +85/−40 to +105	HVSOF5	HFV
BU7441/BU7441S	1	1.7 to 5.5	50	6	0.001	6	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.3	0.6	–	−40 to +85/−40 to +105	SSOP5	G
BU7442/BU7442S	2	1.7 to 5.5	100	6	0.001	6	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.3	0.6	–	−40 to +85/−40 to +105	SOP8 MSOP8 VSON008X2030	F FVM NUX
BU7444S	4	1.7 to 5.5	200	6	0.001	6	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.3	0.6	–	−40 to +85/−40 to +105	SOP14	F
TLR341	1	1.8 to 5.5	75	4	0.001	100	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.01$ to $V_{DD}-0.01$	110	90	95	1.2	2.3	33	−40 to +85	SSOP6	G
TLR342	2	1.8 to 5.5	150	4	0.001	100	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.01$ to $V_{DD}-0.01$	110	90	95	1.2	2.3	33	−40 to +85	SOP8 SOP-J8 TSSOP-B8J TSSOP-B8	F FJ FVJ FVT
TLR344	4	1.8 to 5.5	300	4	0.001	100	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.01$ to $V_{DD}-0.01$	110	90	95	1.2	2.3	33	−40 to +85	SOP14 SOP-J14 TSSOP-B14J	F FJ FVJ
LMR341	1	2.7 to 5.5	80	4	0.001	113	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.01$ to $V_{DD}-0.01$	116	86	82	1	2	40	−40 to +85	SSOP6	G

通用

车载用 轨到轨输入输出 通用运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
EMARMOUR **BD87554Y**	4	4 to 15	7.9	4	0.001	9.3	V_{SS} to V_{DD}	$V_{SS}+0.03$ to $V_{DD}-0.05$	110	80	90	2.4	–	50	−40 to +125	SSOP-B14	FV-C	FSs	YES
EMARMOUR **BD87581Y**	1	4 to 14	2.3	9	0.001	3.5	V_{SS} to V_{DD}	$V_{SS}+0.03$ to $V_{DD}-0.05$	110	60	80	3.5	4	–	−40 to +125	SSOP5	G-C	FSs	YES
EMARMOUR **BD87582Y**	2	4 to 14	5	9	0.001	3.5	V_{SS} to V_{DD}	$V_{SS}+0.03$ to $V_{DD}-0.05$	110	60	80	3.5	4	–	−40 to +125	MSOP8	FVM-C	FSs	YES
EMARMOUR **BD87584Y**	4	4 to 14	10	9	0.001	3.5	V_{SS} to V_{DD}	$V_{SS}+0.03$ to $V_{DD}-0.05$	110	60	80	3.5	4	–	−40 to +125	SSOP-B14	FV-C	FSs	YES
BU7264Y	4	1.8 to 5.5	1.1	11	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.05$ to $V_{DD}-0.05$	95	60	80	1.1	2	–	−40 to +125	SSOP-B14	FV-C	FSs	YES

车载用 通用运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
EMARMOUR **LM2904EY**	2	3 to 36	0.6	6	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	–	−40 to +150	SOP8	F-C	FSs	YES
																SOP-J8	FJ-C	FSs	YES
																MSOP8	FVM-C	FSs	YES
New EMARMOUR **LM2902EY**	4	3 to 36	1	6	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	–	−40 to +150	SSOP-B14	FV-C	FSs	YES
EMARMOUR **BA82904Y**	2	3 to 36	0.5	6	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	–	−40 to +125	SOP8	F-C	FSs	YES
																MSOP8	FVM-C	FSs	YES
EMARMOUR **BA82902Y**	4	3 to 36	0.7	6	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	–	−40 to +125	SOP14	F-C	FSs	YES
																SOP-J14	FJ-C	FSs	YES
																SSOP-B14	FV-C	FSs	YES
																TSSOP-B14J	FVJ-C	FSs	YES
EMARMOUR **BA83472Y**	2	3 to 36	4.3	10	100	30	V_{EE} to $V_{CC}-2.0$	$V_{EE}+0.3$ to $V_{CC}-1.0$	100	97	97	8.5	3	–	−40 to +125	SOP8	F-C	FSs	YES
																MSOP8	FVM-C		
EMARMOUR **BA83474Y**	4	3 to 36	8.6	10	100	30	V_{EE} to $V_{CC}-2.0$	$V_{EE}+0.3$ to $V_{CC}-1.0$	100	97	97	8.5	3	–	−40 to +125	SSOP-B14	FV-C	FSs	YES
BA2904Y	2	3 to 36	0.5	3.5	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	40	−40 to +125	SOP8	F-C	FSs	YES
																SSOP-B8	FV-C	FSs	YES
																MSOP8	FVM-C	FSs	YES
			0.5	7	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	40	−40 to +125	SOP8	F-M	FSs	YES
																SSOP-B8	FV-M	FSs	YES
																MSOP8	FVM-M	FSs	YES
BA2902Y	4	3 to 36	0.7	3.8	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	40	−40 to +125	SOP14	F-C	FSs	YES
																SSOP-B14	FV-C	FSs	YES
			0.7	7	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	40	−40 to +125	SOP14	F-M	FSs	YES
																SSOP-B14	FV-M	FSs	YES
BA3472Y/ BA3472W	2	3 to 36	4	10/7.5	100	30	V_{EE} to $V_{CC}-2.0$	$V_{EE}+0.3$ to $V_{CC}-1.0$	100	97	97	10	4	–	−40 to +125	SOP8/–	F-C	FSs	YES
																SSOP-B8	FV-C		YES
																MSOP8/–	FVM-C		YES
BA3474Y/ BA3474W	4	3 to 36	8	10/7.5	100	30	V_{EE} to $V_{CC}-2.0$	$V_{EE}+0.3$ to $V_{CC}-1.0$	100	97	97	10	4	–	−40 to +125	SSOP-B14	FV-C	FSs	YES
																			YES

轨到轨输入输出 通用运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
BD7541/ BD7541S	1	5.0 to 14.5	0.18	9	0.001	4	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.3	0.6	–	−40 to +85/ −40 to +105	SSOP5	G
BD7542/ BD7542S	2	5.0 to 14.5	0.4	9	0.001	4	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.3	0.6	–	−40 to +85/ −40 to +105	SOP8	F
																MSOP8	FVM
BD7561/ BD7561S	1	5.0 to 14.5	0.44	9	0.001	8	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.9	1	–	−40 to +85/ −40 to +105	SSOP5	G
BD7562/ BD7562S	2	5.0 to 14.5	0.9	9	0.001	8	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.9	1	–	−40 to +85/ −40 to +105	SOP8	F
																MSOP8	FVM
BU7255/ BU7255S	1	2.4 to 5.5	0.54	9	0.001	4	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	105	60	80	3.4	4	–	−40 to +85/ −40 to +105	HVSOF5	HFV
BU7261/ BU7261S	1	1.8 to 5.5	0.25	9	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	1.1	2	–	−40 to +85/ −40 to +105	SSOP5	G
BU7262/ BU7262S	2	1.8 to 5.5	0.55	9	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	1.1	2	–	−40 to +85/ −40 to +105	SOP8	F
																MSOP8	FVM
																VSON008X2030	NUX
BU7264/ BU7264S	4	1.8 to 5.5	1.1	9	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	1.1	2	–	−40 to +85/ −40 to +105	SOP14	F
																SSOP-B14	FV
BU7291/ BU7291S	1	2.4 to 5.5	0.47	9	0.001	8	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	105	60	80	3	2.8	–	−40 to +85/ −40 to +105	SSOP5	G
BU7294/ BU7294S	4	2.4 to 5.5	2	9	0.001	8	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	105	60	80	3	2.8	–	−40 to +85/ −40 to +105	SOP14	F
																SSOP-B14	FV
BU7295/ BU7295S	1	1.8 to 5.5	0.15	9	0.001	8	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	1	1	–	−40 to +85/ −40 to +105	HVSOF5	HFV

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。

*1“ComfySIL™ 功能安全类别”的详情请参阅封二。

EMARMOUR 标志为实现业内超高级别抗噪声性能的产品。
EMARMOUR™ 是ROHM Co., Ltd.的商标或注册商标。

通用

通用运算放大器

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
LM2904	2	3 to 32	0.6	4.5	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.3	0.8	40	−40 to +125	SOP8 SOP-J8 SSOP-B8 TSSOP-B8J MSOP8 TSSOP-B8	F FJ FV FVJ FVM FVT
LM2902	4	3 to 32	1	4.5	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.3	0.8	40	−40 to +125	SOP14 SOP-J14 SSOP-B14 TSSOP-B14J	F FJ FV FVJ
LM324	4	3 to 32	1	4.5	20	30	V_{EE} to $V_{CC}-1.5$	$V_{EE}+0.01$ to $V_{CC}-1.5$	100	80	100	0.3	0.8	40	−40 to +85	SOP14 SOP-J14 SSOP-B14 TSSOP-B14J	F FJ FV FVJ
LM358	2	3 to 32	0.6	4.5	20	30	V_{EE} to $V_{CC}-1.5$	$V_{EE}+0.01$ to $V_{CC}-1.5$	100	80	100	0.3	0.8	40	−40 to +85	SOP8 SOP-J8 SSOP-B8 TSSOP-B8J MSOP8 TSSOP-B8	F FJ FV FVJ FVM FVT
LMR321	1	2.7 to 5.5	0.13	4	15	70	V_{EE} to $V_{CC}-0.8$	$V_{EE}+0.08$ to $V_{CC}-0.04$	110	90	90	1	3	39	−40 to +85	SSOP5	G
LMR324	4	2.7 to 5.5	0.41	9	15	70	V_{EE} to $V_{CC}-0.8$	$V_{EE}+0.08$ to $V_{CC}-0.04$	110	90	90	1	3	39	−40 to +85	SOP14 SOP-J14 SSOP-B14 TSSOP-B14J	F FJ FV FVJ
LMR342	2	2.7 to 5.5	0.2	4	0.001	24	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.06$ to $V_{DD}-0.06$	103	80	85	1	2	40	−40 to +85	SOP8 SOP-J8 SSOP-B8 TSSOP-B8J MSOP8 TSSOP-B8	F FJ FV FVJ FVM FVT
LMR344	4	2.7 to 5.5	0.4	4	0.001	24	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.06$ to $V_{DD}-0.06$	103	80	85	1	2	40	−40 to +85	SOP14 SOP-J14 TSSOP-B14J	F FJ FVJ
LMR358	2	2.7 to 5.5	0.21	5	15	70	V_{EE} to $V_{CC}-0.8$	$V_{EE}+0.08$ to $V_{CC}-0.04$	110	90	90	1	3	39	−40 to +85	SOP8 SOP-J8 SSOP-B8 TSSOP-B8J MSOP8 TSSOP-B8	F FJ FV FVJ FVM FVT
BU7461/ BU7461S	1	1.7 to 5.5	0.15	6	0.001	8	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	1	1	–	−40 to +85/ −40 to +105	SSOP5	G
BU7462/ BU7462S	2	1.7 to 5.5	0.3	6	0.001	8	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	1	1	–	−40 to +85/ −40 to +105	SOP8 MSOP8 VSON008X2030	F FVM NUX
BU7464/ BU7464S	4	1.7 to 5.5	0.6	6	0.001	8	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	1	1	–	−40 to +85/ −40 to +105	SOP14	F
BU7465/ BU7465S	1	1.7 to 5.5	0.12	6	0.001	8	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	100	60	80	1	1.2	–	−40 to +85/ −40 to +105	HVSOF5	HFV
BU7481/ BU7481S	1	1.8 to 5.5	0.42	8	0.001	8	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	105	60	80	3.2	2.8	–	−40 to +85/ −40 to +105	SSOP5	G
BU7495/ BU7495S	1	1.8 to 5.5	0.65	6	0.001	7	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	100	60	80	5	4	38	−40 to +85/ −40 to +105	HVSOF5	HFV
BA3404	2	4 to 36	2	5	70	30	V_{EE} to $V_{CC}-2.0$	V_{EE} to $V_{CC}-2.0$	100	90	94	1.2	1.2	–	−40 to +85	SOP8 MSOP8	F FVM
BA3472	2	3 to 36	4	10	100	30	V_{EE} to $V_{CC}-2.0$	$V_{EE}+0.3$ to $V_{CC}-1.0$	100	97	97	10	4	–	−40 to +85	SOP8 SSOP-B8 SOP-J8 MSOP8	F FV FJ FVM
BA3472R															−40 to +105	MSOP8	FVM
BA3472Y															−40 to +125	SOP8	F-LB
BA3474	4	3 to 36	8	10	100	30	V_{EE} to $V_{CC}-2.0$	$V_{EE}+0.3$ to $V_{CC}-1.0$	100	97	97	10	4	–	−40 to +75 −40 to +85	SOP14 SSOP-B14 TSSOP-B14J	F FV FVJ
BA3474R															−40 to +105	SSOP-B14	FV
BD1321	1	2.7 to 5.5	0.13	4	15	70	V_{EE} to $V_{CC}-0.8$	$V_{EE}+0.08$ to $V_{CC}-0.04$	110	90	90	1	3	–	−40 to +85	SSOP5	G
BA2902/ BA2902S	4	3 to 36	0.7	7	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	40	−40 to +125/ −40 to +105	SOP14 SSOP-B14	F FV
BA2902Y	4	3 to 36	0.7	7	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	40	−40 to +125	SOP14	F-LB
BA2904/ BA2904S	2	3 to 36	0.5	7	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	40	−40 to +125/ −40 to +105	SOP8 SSOP-B8 MSOP8	F FV FVM
BA2904Y	2	3 to 36	0.5	7	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	40	−40 to +125	SOP8	F-LB

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*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。

比较器

通用

集电极开路比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix
New **LM8391**	1	3 to 36	0.3	2 (Max: 5)	50	16	V_{EE} to V_{CC}–1.5	120	1.3	–40 to +125	SSOP5	G-LB
LM2903	2	3 to 32	0.6	1	50	16	V_{EE} to V_{CC}–1.5	120	1	–40 to +125	SOP8	F
											SOP-J8	FJ
											SSOP-B8	FV
											TSSOP-B8J	FVJ
											MSOP8	FVM
											TSSOP-B8	FVT
LM2901	4	3 to 32	1.2	1	50	16	V_{EE} to V_{CC}–1.5	120	1	–40 to +125	SOP14	F
											SOP-J14	FJ
											SSOP-B14	FV
											TSSOP-B14J	FVJ
LM393	2	3 to 32	0.6	1	50	16	V_{EE} to V_{CC}–1.5	120	1	–40 to +85	SOP8	F
											SOP-J8	FJ
											SSOP-B8	FV
											TSSOP-B8J	FVJ
											MSOP8	FVM
											TSSOP-B8	FVT
LM339	4	3 to 32	1.2	1	50	16	V_{EE} to V_{CC}–1.5	120	1	–40 to +85	SOP14	F
											SOP-J14	FJ
											SSOP-B14	FV
											TSSOP-B14J	FVJ
BA2903Y	2	2 to 36	0.6	2	50	16	V_{EE} to V_{CC}–1.5	100	1.3	–40 to +125	SOP8	F-LB
BA2901Y	4	2 to 36	0.8	2	50	16	V_{EE} to V_{CC}–1.5	100	1.3	–40 to +125	SOP14	F-LB
BA2903/ BA2903S	2	2 to 36	0.6	2	50	16	V_{EE} to V_{CC}–1.5	100	1.3	–40 to +125/ –40 to +105	SOP8	F
											SSOP-B8	FV
											MSOP8	FVM
BA2901/ BA2901S	4	2 to 36	0.8	2	50	16	V_{EE} to V_{CC}–1.5	100	1.3	–40 to +125/ –40 to +105	SOP14	F
											SSOP-B14	FV
BA8391	1	2 to 36	0.3	2	50	16	V_{EE} to V_{CC}–1.5	100	1.3	–40 to +85	SSOP5	G

车载用集电极开路比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA2903Y	2	2 to 36	0.6	2 (Max: 4)	50	16	V_{EE} to V_{CC}–1.5	100	1.3	–40 to +125	SOP8	F-C	FSs	YES
											SSOP-B8	FV-C	FSs	YES
											MSOP8	FVM-C	FSs	YES
BA2901Y	4	2 to 36	0.8	2 (Max: 4)	50	16	V_{EE} to V_{CC}–1.5	100	1.3	–40 to +125	SOP14	F-C	FSs	YES
											SSOP-B14	FV-C	FSs	YES
BA2903Y	2	2 to 36	0.6	2 (Max: 7)	50	16	V_{EE} to V_{CC}–1.5	100	1.3	–40 to +125	SOP8	F-M	FSs	YES
											SSOP-B8	FV-M	FSs	YES
											MSOP8	FVM-M	FSs	YES
BA2901Y	4	2 to 36	0.8	2 (Max: 7)	50	16	V_{EE} to V_{CC}–1.5	100	1.3	–40 to +125	SOP14	F-M	FSs	YES
											SSOP-B14	FV-M	FSs	YES

车载用高EMI耐受力集电极开路比较器(EMARMOUR™ 系列)

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New **LM8391EY**	1	3 to 36	0.3	2 (Max: 5)	50	16	V_{EE} to V_{CC}–1.5	120	1.3	–40 to +150	SSOP5	G-C	FSs	YES
LM2903EY	2	3 to 32	0.6	2	50	16	V_{EE} to V_{CC}–1.5	120	1.3	–40 to +150	SOP-J8	FJ-C	FSs	YES
LM2901EY	4	3 to 32	1.2	2	50	16	V_{EE} to V_{CC}–1.5	120	1.3	–40 to +150	SSOP-B14	FV-C	FSs	YES
BA82903Y	2	2 to 36	0.6	2	50	16	V_{EE} to V_{CC}–1.5	100	1.3	–40 to +125	SOP8	F-C	FSs	YES
											MSOP8	FVM-C	FSs	YES
BA82901Y	4	2 to 36	0.8	2	50	16	V_{EE} to V_{CC}–1.5	100	1.3	–40 to +125	SOP14	F-C	FSs	YES
											SSOP-B14	FV-C	FSs	YES

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MARMOUR™ 系列为实现业内超高级别抗噪声性能的产品。
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高速

推挽输出比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (˚C)	Package	Part No. Suffix
BU7251/ BU7251S	1	1.8 to 5.5	15	1	0.001	6	V_{SS} to V_{DD}	90	0.55	−40 to +85/ −40 to +105	SSOP5	G
BU7252/ BU7252S	2	1.8 to 5.5	35	1	0.001	6	V_{SS} to V_{DD}	90	0.55	−40 to +85/ −40 to +105	SOP8 MSOP8	F FVM
BU5265/ BU5265S	1	1.8 to 5.5	22	1	0.001	3.5	V_{SS} to V_{DD}	90	0.5	−40 to +85/ −40 to +105	HVSOF5	HFV

漏极开路比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (˚C)	Package	Part No. Suffix
BU7250/ BU7250S	1	1.8 to 5.5	15	1	0.001	6	V_{SS} to V_{DD}	90	0.75	−40 to +85/ −40 to +105	SSOP5	G
BU7253/ BU7253S	2	1.8 to 5.5	35	1	0.001	6	V_{SS} to V_{DD}	90	0.75	−40 to +85/ −40 to +105	SOP8	F

低消耗电流

推挽输出比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix
BU7231/ BU7231S	1	1.8 to 5.5	5	1	0.001	6	V_{SS} to V_{DD}	90	1.7	−40 to +85/ −40 to +105	SSOP5	G
BU7232/ BU7232S	2	1.8 to 5.5	10	1	0.001	6	V_{SS} to V_{DD}	90	1.7	−40 to +85/ −40 to +105	SOP8 MSOP8	F FVM
BU5255/ BU5255S	1	1.8 to 5.5	6.5	1	0.001	3.5	V_{SS} to V_{DD}	90	1.6	−40 to +85/ −40 to +105	HVSOF5	HFV

车载用推挽输出比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (˚C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU7232Y	2	1.8 to 5.5	10	1	0.001	7	V_{SS} to V_{DD}	100	1.7	−40 to +125	MSOP8	FVM-C	FSs	YES

漏极开路比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (˚C)	Package	Part No. Suffix
BU7230/ BU7230S	1	1.8 to 5.5	5	1	0.001	6	V_{SS} to V_{DD}	90	1.8	−40 to +85/ −40 to +105	SSOP5	G
BU7233/ BU7233S	2	1.8 to 5.5	10	1	0.001	6	V_{SS} to V_{DD}	90	1.8	−40 to +85/ −40 to +105	SOP8	F

车载用漏极开路比较器

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (˚C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU7233Y	2	1.8 to 5.5	10	1	0.001	7	V_{SS} to V_{DD}	100	1.8	−40 to +125	SOP8	F-C	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。

*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

时钟/计时器

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

高性能时钟发生器

数码相机用时钟发生器

Part No.	Supply Voltage (V)	Reference Frequency (MHz)	Video Clock (The output which can be selected) (MHz)	CCD Clock (The output which can be selected) (MHz)	USB Clock (MHz)	Jitter 1σ Typ (ps)	Package
BU2394KN	3.0 to 3.6	14.318182/ 28.636363	14.318182/ 17.734450	135.000000/ 108.000000/ 98.181818/ 110.000000	48.008022	30	VQFN20
BU2396KN	3.0 to 3.6	12.000000	27.000000	24.000000/ 30.000000/ 36.000000	12.000000	50	VQFN20

AV设备用DVD-Video标准时钟发生器

Part No.	Supply Voltage (V)	Reference Frequency (MHz)	Output Frequency (MHz)										Jitter 1σ Typ (ps)	Long-term Jitter P-P Typ (ns)	Package
			DVD-Video Clock			DVD, Audio, CD Clock (The output which can be switched)				System Clock					
			Video1	Video2	Video3	768fs	512fs	384fs	Other	768fs	384fs	Other			
BU2360FV	2.7 to 3.6	27.0000	27.0000	–	–	–	24.5760/ 22.5792	–	–	33.8688	–	–	70	2.5 (Audio)	SSOP-B16
BU2362FV	2.7 to 3.6	27.0000	27.0000	–	–	–	24.5760/ 22.5792	–	36.8640/ 16.9344	33.8688	16.9344	36.864	70	12 (Audio)	SSOP-B16

AV设备用VCXO内置时钟发生器

Part No.	Supply Voltage (V)	VCXO (Reference Clock)	Clock Buffer	PLL Output Frequency (MHz)								Jitter 1σ Typ (ps)	C/N Typ (dB)	Package
				DVD-Video Clock			DVD, Audio, CD Clock (The output which can be switched)	System Clock						
				Video1	Video2	Video3	768fs	768fs	512fs	384fs	Other			
BU3087FV	3.135 to 3.465	Tuning range 27MHz±105ppm Typ	–	27.000000	–	74.250000 (Modulation/ ±0.25%, ±0.50%, ±0.75%, ±1.00%)	–	–	–	–	–	30	HD-Video -70	SSOP-B16

数码相机用时钟发生器可生成CCD, USB和Video 3种时钟
AV设备用DVD-Video标准时钟发生器采用DVD-Video时钟标准生成DVD/CD-Audio, DVD-Video时钟
AV设备用VCXO内置时钟发生器内置VCXO功能，实现高精度外部同步

CR控制方式计时器IC

CR控制方式计时器IC

Part No.	Supply Voltage (V)	PWM Frequency (Hz)	Duty (%)	Circuit Current (mA)	Function	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD9555FVM-C	4.5 to 42.0	1 to 10k	1 to 99	1	PWM/Duty 100% Switching terminal	−40 to +125	MSOP8	FSs	YES

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*1 "ComfySIL™ 功能安全类别" 的详情请参阅封二。

开关/IPD/多路转换器/逻辑

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

车载用标准逻辑IC

逻辑门(单路)

Type	Package/Part No.		Function	Supply Voltage (V)	H Input Voltage (Min) (V)	L Input Voltage (Min) (V)	Operating Temperature (˚C)	Output Delay Time V_{CC}=4.5V to 5.5V (Max) (ns)	ComfySIL™ Functional Safety[*1]	Automotive Grade AEC-Q100
	SSOP5	SSOP6								
BD7LS00	BD7LS00G-C	–	Single 2-input NAND gate	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	–40 to +125	10.0	FSs	YES
BD7LS02	BD7LS02G-C	–	Single 2-input NOR gate	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	–40 to +125	10.0	FSs	YES
BD7LS04	BD7LS04G-C	–	Single Inverter	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	–40 to +125	10.0	FSs	YES
BD7LS08	BD7LS08G-C	–	Single 2-input AND gate	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	–40 to +125	10.0	FSs	YES
BD7LS07	BD7LS07G-C	–	Single Buffer with Open-drain	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	–40 to +125	9.0	FSs	YES
BD7LS14	BD7LS14G-C	–	Single Schmitt Trigger Inverter	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	–40 to +125	11.0	FSs	YES
BD7LS17	BD7LS17G-C	–	Single Schmitt Trigger Buffer	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	–40 to +125	11.0	FSs	YES
BD7LS32	BD7LS32G-C	–	Single 2-input OR gate	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	–40 to +125	10.0	FSs	YES
BD7LS34	BD7LS34G-C	–	Single Buffer	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	–40 to +125	10.0	FSs	YES
BD7LS125	BD7LS125G-C	–	Single 3-state Buffer	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	–40 to +125	10.0	FSs	YES
BD7LS97	–	BD7LS97G-C	Configurable Function gate	1.65 to 5.5	V_{CC}×0.7	V_{CC}×0.3	–40 to +125	13.0	FSs	YES

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[*1] “ComfySIL™ 功能安全类别” 的详情请参阅封二。

标准逻辑IC

模拟开关/模拟开关(单路)

Type	Function	Supply Voltage (V)	Input Voltage (V)		ON Resistance (Max) (Ω)	Control-Output Propagation Delay Time (Typ) (ns)	IN-Out Propagation Delay Time (Typ) (ns)	Max Propagation Frequency (Typ) (MHz)	Package/Part No.		
			H Level (Min)	L Level (Max)					SOP14	SSOP-B14	SSOP5
BU4066BC	Quad Analog Switch	3 to 18	3.5	1.5	950	60	20	–	BU4066BCF	BU4066BCFV	–
BU4S66	Single Analog Switch	3 to 16	3.5	1.5	950	80	15	–	–	–	BU4S66G2

多路转换器

Type	Function	Supply Voltage (V)	Input Voltage (V)		ON Resistance (Max) (Ω)	Control-Output Propagation Delay Time (Typ) (ns)	IN-Out Propagation Delay Time (Typ) (ns)	Max Propagation Frequency (Typ) (MHz)	Package/Part No.	
			H Level (Min)	L Level (Max)					SOP16	SSOP-B16
BU4051BC	Analog Multiplexer/Demultiplexer (8↔1)	3 to 18	3.5	1.5	950	170	15	20	BU4051BCF	BU4051BCFV
BU4052BC	Dual Analog Multiplexer/Demultiplexer (4↔1)	3 to 18	3.5	1.5	950	170	15	20	BU4052BCF	BU4052BCFV
BU4551B	Quad Analog Multiplexer/Demultiplexer (2↔1)	3 to 16	3.5	1.5	1,100	360	35	15	BU4551BF	BU4551BFV

逻辑门

Type	Function	Supply Voltage (V)	Input Voltage (V)		Hysteresis Voltage (V)	Output Voltage I_{OUT}=1μA(V)		Propagation Delay Time (Typ) (ns)	Package/Part No.
			H Level (Min)	L Level (Max)		H Level (Min)	L Level (Max)		SOP14
BU4030B	Quad Exclusive OR Gate	3 to 16	3.5	1.5	–	4.95	0.05	90	BU4030BF

逻辑门(单路)

Type	Function	Supply Voltage (V)	Input Voltage (V)		Hysteresis Voltage (V)	Output Voltage I_{OUT}=1μA(V)		Propagation Delay Time (Typ) (ns)	Package/Part No.
			H Level (Min)	L Level (Max)		H Level (Min)	L Level (Max)		SSOP5
BU4S01	Single NOR Gate	3 to 16	3.5	1.5	–	4.95	0.05	85	BU4S01G2
BU4S11	Single NAND Gate	3 to 16	3.5	1.5	–	4.95	0.05	85	BU4S11G2
BU4SU69	Single Unbuffer Inverter	3 to 16	4.0	1.0	–	4.95	0.05	55	BU4SU69G2
BU4S71	Single OR Gate	3 to 16	3.5	1.5	–	4.95	0.05	90	BU4S71G2
BU4S81	Single AND Gate	3 to 16	3.5	1.5	–	4.95	0.05	90	BU4S81G2
BU4S584	Single Schmitt Trigger	3 to 16	3.5	1.5	0.15 to 0.60	4.95	0.05	125	BU4S584G2

功能逻辑

Type	Function	Supply Voltage (V)	Input Voltage (V)		Output Voltage I_{OUT}=1μA(V)		Propagation Delay Time (Typ) (ns)	Max Clock Frequency (Typ) (MHz)	Set up Time (Typ) (ns)	Hold Time (Typ) (ns)	Package/Part No.	
			H Level (Min)	L Level (Max)	H Level (Min)	L Level (Max)					SOP16	SSOP-B16
BU4094BC	8bit Static Shift/ Store Register (3-State)	3 to 18	3.5	1.5	4.95	0.05	420	2.5	20	10	BU4094BCF	BU4094BCFV

串行输入/并行输出驱动器

串并2输入驱动器

Part No.	Serial Number of Input	Parallel Number of Output	Supply Voltage (V)	Max Output Current (mA)	Max Output Voltage (V)	Output type	Package
BU2098F	2	8	2.7 to 5.5	25	15	Open drain	SOP16
BU2090F		12	2.7 to 5.5	25	25	Open drain	SOP16
BU2090FS		12	2.7 to 5.5	25	25	Open drain	SSOP-A16

串并4输入驱动器

Part No.	Serial Number of Input	Parallel Number of Output	Supply Voltage (V)	Max Output Current (mA)	Max Output Voltage (V)	Output type	Package
BU2050F	4	8	4.5 to 5.5	25	5.5	CMOS	SOP14
BU2092F		12	2.7 to 5.5	25	25	Open drain	SOP18
BU2092FV		12	2.7 to 5.5	25	25	Open drain	SSOP-B20
BU2099FV		12	2.7 to 5.5	25	25	Open drain	SSOP-B20
BU2152FS		24	2.7 to 5.5	25	5.5	CMOS	SSOP-A32

串并2输入驱动器：时钟、数据的2线接口
串并4输入驱动器：时钟、数据、锁存器、芯片启动的4线接口

USB开关IC

DPDT型(Double Pole Double Throw)

Part No.	Supply Voltage (V)		USB Switch (ch)	UART Switch (ch)	Circuit Current (μA)	USB Switch ON Resistance (Ω)	USB Switch ON Capacitance (pF)	Package
	USB	UART						
BD11600NUX	2.5 to 5.5	–	1	–	18	3	6	VSON010X3020
BD11603MWX	2.5 to 5.5	–	2	–	18	3	7	USON016X3315
BD11601NUX	2.5 to 5.5	–	1	–	18	2.5	6	VSON008X2020
BD11670GWL	3.8 to 28.0	–	1	–	26	5	6	UCSP50L1C

内置OVP的微型USB开关 USB2.0/MHL™/Audio

Part No.	Supply Voltage (V)			USB/MHL Switch (ch)	MIC Switch (ch)	HP Switch (ch)	VBUS Signal Path (ch)	ID-CBUS Path (ch)	OTG-VBUS Voltage Path (ch)	Stand by Current (μA)	USB/MHL Switch ON Resistance (Ω)	USB/MHL Switch ON Capacitance (pF)	Package
	VBUS	VBAT	VDDIO										
BD91411GW	3.8 to 28.0	2.9 to 4.6	1.7 to 3.0	2	1 (mono)	1	1	1	1	6	5	6	UCSP75M3

◎MHL™ 是MHL、LCC的商标或注册商标。

IPD(智能功率开关)

高边开关

L字型保护智能高边开关

Part No.	Supply Voltage (V)	V_{DS} (Max) (V)	ch	Iocp (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BV1HD045EFJ-C	6.0 to 28.0	41.0	1	21	45	Self-restart	HTSOP-J8	FSs	YES
BV2HC045EFU-C	6.0 to 19.0	41.0	2	21	45	Off-latch	HSSOP-C16	FSs	YES
BV2HD045EFU-C	6.0 to 28.0	41.0		21	45	Self-restart	HSSOP-C16	FSs	YES
BV2HD070EFU-C	6.0 to 28.0	41.0		10	70	Self-restart	HSSOP-C16	FSs	YES

智能高边开关

Part No.	Supply Voltage (V)	V_{DS} (Max) (V)	ch	Iocp (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BV1HJC45EFJ-C	6.0 to 28.0	45.0	1	5.0	45	Self-restart	HTSOP-J8	FSs	YES
BV1HLC45EFJ-C	6.0 to 28.0	45.0		2.5	45	Self-restart	HTSOP-J8	FSs	YES
New **BV1HV050FJ-C**	4.5 to 28.0	45.0		3.0	50	Self-restart	SOP-J8	FSs	YES
BV1HD090FJ-C	4.5 to 36.0	45.0		2.7	90	Self-restart	SOP-J8	FSs	YES
BV1HJ180EFJ-C	4.0 to 28.0	45.0		2.0	180	Self-restart	HTSOP-J8	FSs	YES
BD1HCU50EFJ-C	4.0 to 18.0	44.5		0.8	500	Off-latch	HTSOP-J8	FSs	YES
BD1HC500FVM-C	4.0 to 18.0	44.5		0.8	500	Off-latch	MSOP8	FSs	YES
BD1HC500HFN-C	4.0 to 18.0	44.5		0.8	500	Off-latch	HSON8	FSs	YES
BD1HDU50EFJ-C	4.0 to 18.0	44.5		0.8	500	Self-restart	HTSOP-J8	FSs	YES
BD1HD500FVM-C	4.0 to 18.0	44.5		0.8	500	Self-restart	MSOP8	FSs	YES
BD1HD500HFN-C	4.0 to 18.0	44.5		0.8	500	Self-restart	HSON8	FSs	YES
BV2HM050EFV-C	6.0 to 28.0	45.0	2	5.0	50	Self-restart	HTSSOP-B20	FSs	YES

内置电流检测功能的高边开关

Part No.	Supply Voltage (V)	V_{DS} (Max) (V)	ch	Iocp (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BV1HB045EFJ-C	6.0 to 28.0	45	1	21	45	Self-restart	HTSOP-J8	FSs	YES

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低边开关

智能低边开关

Part No.	Supply Voltage (V)	V_{DS} (Max) (V)	ch	Iocp (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BV1LA025EFJ-C	3.5 to 5.5	42	1	9.0	25	Self-restart	HTSOP-J8	FSs	YES
BV1LB025EFJ-C				35.0	25		HTSOP-J8	FSs	YES
BV1LB028FPJ-C	3.0 to 5.5			30.0	28		TO252-J3	FSs	YES
BV1LB045FPJ-C				18.0	45		TO252-J3	FSs	YES
BV1LB085FJ-C				13.0	85		SOP-J8	FSs	YES
BV1LB150FJ-C				6.5	150		SOP-J8	FSs	YES
BV1LB300FJ-C				1.7	300		SOP-J8	FSs	YES
BM2LB150FJ-C			2	6.5	150		SOP-J8	FSs	YES
BM2LB300FJ-C				1.7	300		SOP-J8	FSs	YES

智能低边开关 带错误标志

Part No.	Supply Voltage (V)	V_{DS} (Max) (V)	ch	Iocp (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New **BV1LD040EFJ-C**	3.0 to 5.5	40	1	5.5	40	Self-restart	HTSOP-J8	FSs	YES
BV1LE040EFJ-C				17.5	40		HTSOP-J8	FSs	YES
New **BV1LD080EFJ-C**				3.8	80		HTSOP-J8	FSs	YES
BV1LE080EFJ-C				9.0	80		HTSOP-J8	FSs	YES
BV1LC085EFJ-C		42		4.0	85		HTSOP-J8	FSs	YES
BV1LC105FJ-C				3.0	105		SOP-J8	FSs	YES
BV1LC150EFJ-C				3.5	150		HTSOP-J8	FSs	YES
BV1LE160EFJ-C		40		5.0	160		HTSOP-J8	FSs	YES
BV1LE250EFJ-C				3.0	250		HTSOP-J8	FSs	YES
New **BV1LD250EFJ-C**				1.3	250		HTSOP-J8	FSs	YES
BV1LC300EFJ-C		42		1.7	350		HTSOP-J8	FSs	YES
BV1LC300FJ-C				1.7	350		SOP-J8	FSs	YES
New **BD1LBU50EFJ-C**	3.5 to 5.5			0.8	350		HTSOP-J8	FSs	YES
BD1LB500FVM-C				0.8	350		MSOP8	FSs	YES
BM2LE040FJ-C	3.0 to 5.5	40	2	17.5	40		SOP-J8	FSs	YES
New **BM2LD080FJ-C**				3.8	80		SOP-J8	FSs	YES
BM2LE080FJ-C				9.0	80		SOP-J8	FSs	YES
BM2LC105FJ-C		42		3.0	105		SOP-J8	FSs	YES
BM2LC120FJ-C				3.0	120		SOP-J8	FSs	YES
BM2LE160FJ-C		40		5.0	160		SOP-J8	FSs	YES
BM2LE250FJ-C				3.0	250		SOP-J8	FSs	YES
BM2LC300FJ-C		42		1.7	350		SOP-J8	FSs	YES

智能低边开关 可变转换速率

Part No.	Supply Voltage (V)	V_{DS} (Max) (V)	ch	Iocp (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BV1LF080EFJ-C	3.5 to 6.5	42	1	5.0	80	Self-restart	HTSOP-J8	FSs	YES

多通道智能低边开关

Part No.	Supply Voltage (V)	V_{DS} (Max) (V)	ch	Iocp (Min) (A)	ON Resistance (Typ) (mΩ)	Thermal Shut Down	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New **BD4LB650EFV-C**	4.0 to 5.5	37	4	0.5 or 1.0	650	Self-restart	HTSSOP-B20	FSs	YES
New **BD4LD650EFV-C**	4.0 to 5.5/ 3.0 to 5.5 (IO)			0.5 or 1.0	650		HTSSOP-B20	FSs	YES
New **BD5LL20AEFV-C**	6.0 to 8.0 (Vs)/ 6.0 to 18 (Vx)	30	5	2.0 (OUT 1 to 3)/ 0.5 (OUT 4, 5)	200 (OUT 1 to 3) 540 (OUT 4, 5)		HTSSOP-B20	FSs	YES
New **BD8LB65AEFV-C**	4.0 to 5.5	37	8	0.5 or 1.0	650		HTSSOP-B20	FSs	YES
New **BD8LD650EFV-C**	4.0 to 5.5/ 3.0 to 5.5 (IO)			0.5 or 1.0	650		HTSSOP-B20	FSs	YES
BD8LB600FS-C	3.0 to 5.5 (Digital)/ 4.0 to 5.5 (Analog)	45		1.0	600		SSOP-A24	FSs	YES
BD8LA700EFV-C				0.5	700	Off-latch	HTSSOP-B24	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。

*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。

数据转换器

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

D/A转换器

8bit

标准8bit分辨率

用8bit精度(256级)可控制输出电压。这是更普及的类型，功能也非常丰富。

Part No.	Supply Voltage (V)	ch	Current Consumption (mA)	DNL (LSB)	INL (LSB)	Load Current (mA)	Data Transfer Clock Frequency (MHz)	Input type	Data Latch Method	Package
BH2219FVM	2.7 to 5.5	2	0.4	±1.0	±1.5	±1.0	10	CMOS	LD	MSOP8
BH2227FV	2.7 to 5.5	4	0.8	±1.0	±1.5	±1.0	10	CMOS	CSB	SSOP-B14
BH2228FV	2.7 to 5.5	6	0.8	±1.0	±1.5	±1.0	10	CMOS	CSB	SSOP-B14
BH2226FV	2.7 to 5.5	8	1.1	±1.0	±1.5	±1.0	10	CMOS	CSB	SSOP-B16
BH2223FV	2.7 to 5.5	10	1.6	±1.0	±1.5	±1.0	10	CMOS	LD	SSOP-B16
BH2221FV	2.7 to 5.5	12	1.6	±1.0	±1.5	±1.0	10	CMOS	LD	SSOP-B20

10bit

10bit分辨率

Part No.	Supply Voltage (V)	ch	Current Consumption (mA)	DNL (LSB)	INL (LSB)	Load Current (mA)	Data Transfer Clock Frequency (MHz)	Input type	Data Latch Method	Package
BU2508FV	4.5 to 5.5	4	4.5	±1.0	±3.5	±2.0	10	TTL	LD	SSOP-B14
BU2507FV	4.5 to 5.5	6	4.5	±1.0	±3.5	±2.0	10	TTL	LD	SSOP-B14
BU2506FV	4.5 to 5.5	8	4.5	±1.0	±3.5	±2.0	10	TTL	LD	SSOP-B20
BU2505FV	4.5 to 5.5	10	4.5	±1.0	±3.5	±2.0	10	TTL	LD	SSOP-B20
BU22210MUV	2.7 to 5.5	10	1.2	±0.5	±2.0	±1.0	10	TTL	CSB	VQFN016V3030

A/D转换器

车载用 高精度12bit A/D转换器

Part No.	Supply Voltage (V)	ch	Current Consumption (mA)	DNL (LSB)	INL (LSB)	Sampling Rate (MSPS)	I/F	Architecture	Package	Automotive Grade AEC-Q100
New **BD79104MUF-M**	2.7 to 5.25	8	1.1	−0.99 to +1.2	−1.0 to +1.0	1.0	SPI	SAR	VQFN16FV3030 (Wettable Flank)	YES

高精度12bit A/D转换器(工业设备用)

Part No.	Supply Voltage (V)	ch	Current Consumption (mA)	DNL (LSB)	INL (LSB)	Sampling Rate (MSPS)	I/F	Architecture	Package
BU79100G-LA	2.7 to 5.25	1	0.5	−1.0 to +1.0	−1.1 to +1.0	1.0	SPI	SAR	SSOP6
New **BD79104FV-LA**	2.7 to 5.25	8	1.1	−0.99 to +1.2	−1.0 to +1.0	1.0	SPI	SAR	SSOP-B16

接口

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

LVDS接口IC

Part No.	Type	bits (bit)	Color Depth	Input Specification	Output Specification	Clock Frequency (MHz)	Supply Voltage (V)	Operating Temperature (°C)	Package
27bit LVDS发射器 27 : 4串行器									
BU90T81	Serializer	27	8	LVCMOS	LVDS Single Link	20 to 112	1.65 to 1.95	−20 to +85	VBGA048W040
27bit LVDS发射器 27 : 8串行器									
BU90T82	Serializer	27	8	LVCMOS	LVDS Dual Link	10 to 174	1.62 to 1.98/ 1.62 to 3.60	−40 to +85	SBGA072T070A
35bit LVDS发射器 35 : 5串行器									
BU8254KVT	Serializer	35	10	LVCMOS	LVDS Single Link	8 to 112	3.0 to 3.6	−40 to +85	TQFP64V
BU8254GUW	Serializer	35	10	LVCMOS	LVDS Single Link	8 to 112	3.0 to 3.6	−20 to +85	VBGA099W060
56bit LVDS发射器 56 : 8串行器									
BU7988KVT	Serializer	56	8	LVCMOS	LVDS Dual Link	8 to 112	3.0 to 3.6	−20 to +85	TQFP100V
35bit LVDS接收器 5 : 35解串器									
BU90R104	Deserializer	35	10	LVDS Single Link	LVCMOS	8 to 112	2.3 to 3.6	−40 to +85	TQFP64V
56bit LVDS接收器 8 : 56解串器									
BU7985KVT	Deserializer	56	8	LVDS Dual Link	LVCMOS	20 to 112	3.0 to 3.6	−20 to +85	TQFP100V
70bit LVDS分配器									
BU90RT102	Serializer/ Deserializer	70	10	LVDS	LVDS	20 to 135	3.0 to 3.6	−20 to +85	HTSSOP-C64
4bit LVDS驱动器									
BU90LV047A	Driver	4	–	LVCMOS	LVDS	250	3.0 to 3.6	−40 to +85	SSOP-B16
4bit LVDS接收器									
BU90LV048	Receiver	4	–	LVDS	LVCMOS	250	3.0 to 3.6	−40 to +85	SSOP-B16
4bit LVDS收发器									
BU90LV049A	Transceiver	4	–	LVCMOS/LVDS	LVCMOS/LVDS	250	3.0 to 3.6	−40 to +85	SSOP-B16

多输入监控LSI

Part No.	Supply Voltage (V)	Switch Input Number	Switch Input Voltage Range (V)	Wetting Current (mA)	Operating Current Intermittent Monitoring 50ms (Max) (μA)	Control I/F	Clock Frequency (MHz)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
22ch型											
BD3378MUV-M	6.0 to 28.0 (VPUA/VPUB) 3.1 to 5.25 (VDDI)	22	−14 to +40	1/3/5/10/15 (Pull up/Pull down)	100	SPI	up to 4.4	−40 to +125	VQFN48MCV070	FSs	YES
33ch型											
BD3381EKV-C	6.0 to 28.0 (VPUA/VPUB) 3.1 to 5.25 (VDDI)	33	−14 to +40	1/3/5/10/15 (Pull up/Pull down)	110	SPI	up to 4.4	−40 to +125	HTQFP64BV	FSs	YES
10ch型											
BD3376EFV-C	8.0 to 26.0 (VPUA/VPUB) 3.1 to 5.25 (VDDI)	10	−14 to +40	1/3/5/10/15 (Pull up/Pull down)	100	SPI	up to 4.4	−40 to +125	HTSSOP-B30	FSs	YES

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*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

LIN收发器

LIN收发器

Part No.	Supported Standards	Supply Voltage (V)	Operating Temperature (̊C)	Absolute Maximum Rating of LIN pin (V)	Transmission Rate (Max) (kbps)	Supply Current at Sleep Mode (Typ) (µA)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New **BD41033FJ-C**	LIN2.0, LIN2.1, LIN2.2, LIN2.2A, ISO17987-4: 2016 (12V)	5 to 27	−40 to +125	−27 to +40	20	3	SOP-J8	FSs	YES
BD41030FJ-C	LIN2.0, LIN2.1, LIN2.2, LIN2.2A	5 to 27	−40 to +125	−27 to +40	20	3	SOP-J8	FSs	YES
BD41030HFN-C	LIN2.0, LIN2.1, LIN2.2, LIN2.2A	5 to 27	−40 to +125	−27 to +40	20	3	HSON8	FSs	YES

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CAN收发器

CAN收发器

Part No.	Supported Standards	Supply Voltage (V)	Operating Temperature (̊C)	Absolute Maximum Rating of CAN pin (V)	Transmission Rate (Max) (Mbps)	Supply Current at Standby Mode (Typ) (µA)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD41041FJ-C	ISO 11898-2: 2016	4.75 to 5.25	−40 to +125	−27 to +40	1	10	SOP-J8	FSs	YES
BD41044FJ-C	ISO 11898-2: 2016	4.75 to 5.25	−40 to +125	−27 to +40	5	10	SOP-J8	FSs	YES

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CXPI收发器

CXPI收发器

Part No.	Supported Standards	Supply Voltage (V)	Operating Temperature (̊C)	Absolute Maximum Rating of BUS (V)	Transmission Rate (kbps)	Supply Current at Sleep Mode (Typ) (µA)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD41003FJ-C	JASO_D015_3	7 to 18	−40 to +125	−27 to +40	18.8 to 20.0	3	SOPJ-8	FSs	YES

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*1 "ComfySIL™ 功能安全类别"的详情请参阅封二。

USB Type-C Power Delivery

供电用(电力用途：供电，数据传输用途：DFP、内部分流调节、可调OCP、可调OVP、内部Vconn开关)

Part No.	Supply Voltage (V)	IO Supply Voltage (V)	Type-C/PD Support	Initial Supply Capable Voltage/Current (V/A)	Tolerant Voltage at CC Pins (V)	Gate Drivers for Nch FET	After OCP Behavior After OVP Behavior	DP Alternate Mode	Operating Temperature (̊C)	Package
BD93F50MWV	3.1 to 22.0	1.7 to 5.5	R1.3/R3.0	5V to 20V Selectable	28	For Source: 1pair (For Sink: 1pair)	OCP: Selectable OVP: Selectable	DP_SINK with Ext-MCU	−30 to +85	UQFN040V5050

供电受电用(电力用途：供电/受电/DRP，数据传输用途：DFP/UFP/DRD)

Part No.	Supply Voltage (V)	IO Supply Voltage (V)	Type-C/PD Support	Connected The Required Initial Voltage (V)		CC terminal voltage (V)	Gate Drivers for Nch FET	DP Alternate Mode	Operating Temperature (̊C)	Package
				Dead Battery	Non Dead Battery					
BD93E30GWL	3.1 to 22.0	1.7 to 5.5	R1.3/R3.0	5V to 20V Selectable (Sink) / 5V (Source)		6.0	For Sink: 1pair For Source: 1pair	DP_SOURCE	−30 to +85	UCSP50L2C
BD93E70GWL				5V (Sink) / 5V to 20V Selectable (Source)				DP_SINK		UCSP50L2C

受电用(电力用途：受电，数据传输用途：UFP)

Part No.	Supply Voltage (V)	IO Supply Voltage (V)	Type-C/PD Support	Connected The Required Initial Voltage (V) Without Ext-MCU	Start of Automatic Power Receiving Without Ext-MCU	CC terminal voltage (V)	Gate Drivers for Nch FET	DP Alternate Mode	Operating Temperature (̊C)	Package
BD93E11GWL	3.1 to 22.0	1.7 to 5.5	R1.3/R3.0	5V to 20V Selectable	Selectable	6.0	For Sink: 1pair For Source: 1pair	–	−30 to +85	UCSP50L2C
BD93F10MWV						28				UQFN040V5050
New **BD93F12MWV**	3.1 to 20.0		R2.2/R3.1			28				UQFN040V5050
BD91N01NUX	4.0 to 5.5		R1.3/–	Type-C 5V	✓	28	For Sink: 1path			VSON010X3020

燃气热水器用接口IC

燃气热水器用接口IC

Part No.	Supply Voltage (V)	Circuit Current (mA)	Oscillation Frequency (MHz)	Detection Frequency (kHz)	Pseudo-sine Wave Output Circuit	External Analog Signal Detection Circuit	Analog Switch (ch)	Operating Temperature (̊C)	Package
BD88030FV	4.5 to 5.5	2.5	4	250	✓	✓	2	−20 to +80	SSOP-B16

电源管理

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

线性稳压器

稳压器-产品一览表

Output Current / Max. Rating Input Voltage	up to 0.1A	0.15A	0.2A	0.25A	0.3A	0.5A	0.55A	0.7A	1A	1.5A	2A	3A
42 to 50V	BD7xxL05G-C*2 ▶P.31 BD42540FJ-C*2/3 BD42500G-C*2/3 ▶P.42	BD9xxN1*1/2 BD9xxN1W*1/2 ▶P.30	BD7xxU2EFJ-C*2 BD7xxL2FP-C*2 BD7xxL2FP3-C*2 BD4xxS2*1/2 BD4xxS2W*1/2 ▶P.30 BD820F5UEFJ-C*2/3 ▶P.41 BD4269FJ-C*2/3 ▶P.42	BD42530UEFJ-C*2 BD42530FP2-C*2 BD42530FPJ-C*2 ▶P.42	BD4269UEFJ-C*2/3 ▶P.42	BD357xYFP-M*2 BD357xYHFP-M*2 BD7xxL5FP-C*2 ▶P.29 BD800M5W*1/2 BD00EA5W*1 BD4xxS5*1/2 BD4xxS5W*1/2 BD9xxM5EFJ-C*2 BD9xxM5WEFJ-C*2 ▶P.30 BD30xxHFP*2 ▶P.41 BD42754FPJ-C*2/3 BD42754FP2-C*2/3 BD3925FP-C*2 BD3925HFP-C*2 ▶P.42	BD4271EFJ-C*2/3 BD4271HFP-C*2/3 BD4271FP2-C*2/3 ▶P.41	BD800M7WFP2-C*2 ▶P.30				
30 to 36V	BDxxFA1FP3 BD50FA1MG-M*2 BD00FA1WEFJ ▶P.33				BD3650FP-M*2 ▶P.31 BA3662CP-V5 ▶P.33	BA178Mxx (BA78Mxx)*1 ▶P.29			BA178xx (BA78xx)*1 ▶P.29 BAxxxCC0*1 BAxxxCC0W*1 BDxxFC0 BDxxFC0W*1 BDxxC0A*1/2 BDxxC0AW*1/2 ▶P.32		BAxxDD0 BAxxDD0W*1 BDxxFD0W*1 BD00FDAWHFP ▶P.31	
20V						BDL00A5NUF-C*2 BDL00A5EFJ-C*2 ▶P.33						
18V									BAxxBC0*1 BAxxBC0W*1 ▶P.33	BAxxJC5T BA00JC5WT ▶P.33		
15V					BDxxGA3V*2 BDxxGA3W*1 ▶P.35	BDxxGA5WEFJ BDxxGA5VEFJ-M*2 BDxxGA5VEFJ-LB*4 ▶P.34			BA1117FP ▶P.29 BDxxGC0WEFJ BDxxGC0VEFJ-M*2 BDxxGC0VEFJ-LB*4 ▶P.34			
10V					BDxxHA3WEFJ BDxxHA3VEFJ-M*2 ▶P.36 BDxxHA3VEFJ-LB*4 ▶P.37	BDxxHA5WEFJ BDxxHA5VEFJ-M*2 ▶P.36			BDxxHC0WEFJ BDxxHC0VEFJ-M*2 BDxxHC0VEFJ-LB*4 ▶P.36	BDxxHC5WEFJ BDxxHC5VEFJ-M*2 BDxxHC5VEFJ-LB*4 ▶P.35		
6 to 7V			BUxxTD2W*1 BUxxTD3W*1 BUxxTA2W*1 ▶P.39 BUxxSD2MG-M*2 BUxxJA2MNVX-C*2 BUxxJA2VG-C*2 BUxxJA2DG-C*2 BUxxSA4WGWL ▶P.40		BU1xxJA3DG-C*2 ▶P.39	BDxxKA5 BDxxKA5W*1 BDxxIA5WEFJ BDxxIA5VEFJ-M*2 BD00IA5MHFV-M*2 BDxxIA5VEFJ-LB*4 ▶P.38 BUxxSD5WG ▶P.39			BDxxIC0W*1 BDxxIC0V*2 BDxxIC0VEFJ-LB*4 ▶P.37 BD00JC0MNUX-M ▶P.41			
less than 6V	BD7602GUL (1ch) ▶P.41	BD7602GUL (2ch) ▶P.41				BUxxSA5WGWZ BD3540NUV ▶P.41 BD37201NUX ▶P.42			BD3541NUV ▶P.41 BD3533F BD3539FVM BD3539NUX BD35390FJ BD35395FJ-M*2 ▶P.43		BD3552HFN ▶P.41	BD3508MUV ▶P.41

*1 封装系列　*2 车载等级　*3 电压检测等复合稳压器　*4 备有工业设备级产品

线性稳压器

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

标准稳压器(三引脚稳压器)

35V耐压 1A输出 3引脚稳压器(BA178xx系列)

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Circuit Current (mA)	Thermal Shutdown Circuit	Area of Safety Operation Circuit	Over-Current Protection Circuit	Package/Part No.	
									TO220CP-3	TO252-3
BA17805 (BA7805)	7.5 to 25.0	5	±4	1.0	4.5	✓	✓	✓	BA17805CP	BA17805FP
BA17806 (BA7806)	8.5 to 21.0	6							BA17806CP	BA17806FP
BA17807 (BA7807)	9.5 to 22.0	7							BA17807CP	BA17807FP
BA17808 (BA7808)	10.5 to 23.0	8							BA17808CP	BA17808FP
BA17809 (BA7809)	11.5 to 26.0	9							BA17809CP	BA17809FP
BA17810 (BA7810)	12.5 to 25.0	10							BA17810CP	BA17810FP
BA17812 (BA7812)	15.0 to 27.0	12							BA17812CP	BA17812FP
BA17815 (BA7815)	17.5 to 30.0	15							BA17815CP	BA17815FP
BA17818 (BA7818)	21.0 to 33.0	18							BA17818CP	BA17818FP
BA17820 (BA7820)	23.0 to 33.0	20							BA17820CP	BA17820FP
BA17824 (BA7824)	27.0 to 33.0	24							BA17824CP	BA17824FP

35V耐压 500mA输出 3引脚稳压器(BA178Mxx系列)

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Circuit Current (mA)	Thermal Shutdown Circuit	Area of Safety Operation Circuit	Over-Current Protection Circuit	Package/Part No.	
									TO220CP-3	TO252-3
BA178M05 (BA78M05)	7.5 to 25.0	5	±4	0.5	4.5	✓	✓	✓	BA178M05CP	BA178M05FP
BA178M06 (BA78M06)	8.5 to 21.0	6							BA178M06CP	BA178M06FP
BA178M07 (BA78M07)	9.5 to 22.0	7							BA178M07CP	BA178M07FP
BA178M08 (BA78M08)	10.5 to 23.0	8							BA178M08CP	BA178M08FP
BA178M09 (BA78M09)	11.5 to 26.0	9							BA178M09CP	BA178M09FP
BA178M10 (BA78M10)	12.5 to 25.0	10							BA178M10CP	BA178M10FP
BA178M12 (BA78M12)	15.0 to 27.0	12							BA178M12CP	BA178M12FP
BA178M15 (BA78M15)	17.5 to 30.0	15							BA178M15CP	BA178M15FP
BA178M18 (BA78M18)	21.0 to 33.0	18							BA178M18CP	BA178M18FP
BA178M20 (BA78M20)	23.0 to 33.0	20							BA178M20CP	BA178M20FP
BA178M24 (BA78M24)	27.0 to 33.0	24							BA178M24CP	BA178M24FP

15V耐压 1A 可变输出 3引脚稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Adjustment Pin Current (μA)	Reference Voltage (V)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package
BA1117FP	10.0	Variable	±1	1.0	60	1.2 (I_O=1A)	75 (f=120Hz, V_I-V_O=3V, Vripple=1V_{PP})	10	Over-Current/ Temperature	TO252-3

低饱和稳压器(LDO)

50V耐压 低静态电流 500mA 可变输出/固定输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Saturation Voltage (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD3570YFP-M	4.5 to 36.0	3.3	±2 (T_a=−40 to +125°C)	0.5	–	30	T_a=−40 to +125	–	Over-Current/ Temperature	TO252-3	FSs	YES
BD3570YHFP-M										HRP5	FSs	YES
BD3571YFP-M	5.5 to 36.0	5.0			0.25 (I_O=200mA)					TO252-3	FSs	YES
BD3571YHFP-M										HRP5	FSs	YES
BD3572YFP-M	4.5 to 36.0	Variable 2.8 to 12.0								TO252-5	FSs	YES
BD3572YHFP-M										HRP5	FSs	YES
BD3573YFP-M		3.3			–			✓		TO252-5	FSs	YES
BD3573YHFP-M										HRP5	FSs	YES
BD3574YFP-M	5.5 to 36.0	5.0			0.25 (I_O=200mA)					TO252-5	FSs	YES
BD3574YHFP-M										HRP5	FSs	YES
BD3575YFP-M	4.5 to 36.0	Variable 2.8 to 12.0								TO252-5	FSs	YES
BD3575YHFP-M										HRP5	FSs	YES

50V耐压 超低静态电流 500mA 固定输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Saturation Voltage (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD733L5FP-C	4.17 to 45.0	3.3	±2 (T_a=−40 to +125°C)	0.5	0.4 (I_O=200mA)	6	T_a=−40 to +125	–	Over-Current/ Temperature	TO252-3	FSs	YES
BD750L5FP-C	5.6 to 45.0	5.0			0.25 (I_O=200mA)					TO252-3	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。

*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。

低饱和稳压器(LDO)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

50V耐压 超低静态电流 200mA 固定输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Saturation Voltage (V)	Circuit Current (μA)	Operating Temperature (˚C)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD733U2EFJ-C	4.37 to 45.0	3.3	±2 (T_a=−40 to +125˚C)	0.2	0.6 (I_O=200mA)	6	T_a=−40 to +125	—	Over-Current/ Temperature	HTSOP-J8	FSs	YES
BD733L2FP-C										TO252-3	FSs	YES
BD733L2FP3-C										SOT223-4	FSs	YES
BD750U2EFJ-C	5.8 to 45.0	5.0			0.4 (I_O=200mA)					HTSOP-J8	FSs	YES
BD750L2FP-C										TO252-3	FSs	YES
BD750L2FP3-C										SOT223-4	FSs	YES

45V耐压 低静态电流 700mA 可变输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (˚C)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD800M7WFP2-C	3.0 to 42.0	Variable 1.2 to 16.0	±2.6 (T_j=−40 to +150˚C)	0.7	0.6 (I_O=700mA)	17	T_j=−40 to +150	✓	Over-Current/ Temperature	TO263-5	FSs	YES

45V耐压 低静态电流 500mA 可变输出 LDO稳压器

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (˚C)	Shutdown Switch	Protection Circuit	Package/Part No.				ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
										TO252-5	TO252-J5	TO263-5	HRP5		
BD800M5W	3.0 to 42.0	Variable 1.2 to 16.0	±2 (T_j=−40 to +150˚C)	0.5	0.5 (I_O=500mA)	17	T_j=−40 to +150	✓	Over-Current/ Temperature	—	BD800M5WFPJ-C	—	BD800M5WHFP-C	FSs	YES
			±2.6 (T_j=−40 to +150˚C)							—	—	BD800M5WFP2-C	—	FSs	YES
BD00EA5W			±1 (T_j=25˚C)		0.45 (I_O=500mA)		T_j=−40 to +105			BD00EA5WFP	—	—	BD00EA5WHFP	—	—
			±1.5 (T_j=25˚C)							—	—	BD00EA5WFP2	—	—	—

45V耐压 低静态电流 500mA 固定输出 LDO稳压器

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (˚C)	Shutdown Switch	Protection Circuit	Package/Part No.			ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
										TO263-3	HTSOP-J8	TO263-5		
New **BD433S5**	4.0 to 42.0	3.3	±2 (T_j=−40 to +150°C)	0.5	0.25 (I_O=300mA)	38	T_j=−40 to +150	—	Over-Current/ Temperature	BD433S5FP2-C	BD433S5EFJ-C	—	FSs	YES
New **BD450S5**	5.5 to 42.0	5.0			0.2 (I_O=300mA)					BD450S5FP2-C	BD450S5EFJ-C	—	FSs	YES
New **BD433S5W**	4.0 to 42.0	3.3			0.25 (I_O=300mA)			✓		—	BD433S5WEFJ-C	BD433S5WFP2-C	FSs	YES
New **BD450S5W**	5.5 to 42.0	5.0			0.2 (I_O=300mA)					—	BD450S5WEFJ-C	BD450S5WFP2-C	FSs	YES

45V耐压 低静态电流 500mA 可变输出/固定输出 LDO稳压器(QuiCur™系列*2)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New **BD900M5EFJ-C**	3.0 to 42.0	Variable 1.0 to 16.0	±2 (T_j=−40 to +150˚C)	0.5	0.36 (I_O=300mA)	9.5	T_j=−40 to +150	—	Over-Current/ Temperature	HTSSOP-J8	FSs	YES
New **BD933M5EFJ-C**		3.3			0.41 (I_O=300mA)					HTSSOP-J8	FSs	YES
New **BD950M5EFJ-C**		5.0			0.36 (I_O=300mA)					HTSSOP-J8	FSs	YES
New **BD900M5WEFJ-C**		Variable 1.0 to 16.0			0.36 (I_O=300mA)			✓		HTSSOP-J8	FSs	YES
New **BD933M5WEFJ-C**		3.3			0.41 (I_O=300mA)					HTSSOP-J8	FSs	YES
New **BD950M5WEFJ-C**		5.0			0.36 (I_O=300mA)					HTSSOP-J8	FSs	YES

45V耐压 低静态电流 200mA 固定输出 LDO稳压器

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (˚C)	Shutdown Switch	Protection Circuit	Package/Part No.		ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
										HTSOP-J8	SOT223-4		
New **BD433S2**	3.9 to 42.0	3.3	±2 (T_j=−40 to +150°C)	0.2	0.2 (I_O=100mA)	40	T_j=−40 to +150	—	Over-Current/ Temperature	BD433S2EFJ-C	BD433S2FP3-C	FSs	YES
New **BD450S2**	5.5 to 42.0	5.0			0.16 (I_O=100mA)					BD450S2EFJ-C	BD450S2FP3-C	FSs	YES
New **BD433S2W**	3.9 to 42.0	3.3			0.2 (I_O=100mA)			✓		BD433S2WEFJ-C	BD433S2WFP3-C	FSs	YES
New **BD450S2W**	5.5 to 42.0	5.0			0.16 (I_O=100mA)					BD450S2WEFJ-C	BD450S2WFP3-C	FSs	YES

45V耐压 低静态电流 150mA 可变输出/固定输出 LDO稳压器(Nano Cap™系列)

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (˚C)	Shutdown Switch	Protection Circuit	Package/Part No.		ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
										HTSOP-J8	SSOP5		
BD900N1	3.0 to 42.0	Variable 1.0 to 18.0	±2 (T_j=−40 to +150°C)	0.15	0.5 (I_O=100mA)	28	T_j=−40 to +150	—	Over-Current/ Temperature	BD900N1EFJ-C	BD900N1G-C	FSs	YES
BD933N1		3.3								BD933N1EFJ-C	BD933N1G-C	FSs	YES
BD950N1		5.0			0.42 (I_O=100mA)					BD950N1EFJ-C	BD950N1G-C	FSs	YES
BD900N1W		Variable 1.0 to 18.0			0.5 (I_O=100mA)			✓		BD900N1WEFJ-C	BD900N1WG-C	FSs	YES
BD933N1W		3.3								BD933N1WEFJ-C	BD933N1WG-C	FSs	YES
BD950N1W		5.0			0.42 (I_O=100mA)					BD950N1WEFJ-C	BD950N1WG-C	FSs	YES

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[*1] “ComfySIL™ 功能安全类别”的详情请参阅封二。

[*2] QuiCur™ 是根据ROHM自有电路技术，能更大程度地实现电源IC的响应性能的控制技术。

Nano是实现小型化和节能的罗姆创新型电源技术。
上述Nano Cap™ 系列为采用Nano Cap™ 超稳定控制技术的产品。Nano Pulse Control™、Nano Energy™和Nano Cap™ 是ROHM Co., Ltd.的商标或注册商标。

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

45V耐压 超低静态电流 50mA 固定输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (°C)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD725L05G-C	3.5 to 42.0	2.5	±2 (T_j=−40 to +150°C)	0.05	—	6	T_j=−40 to +150	—	Over-Current/ Temperature	SSOP5	FSs	YES
BD730L05G-C	3.5 to 42.0	3.0			0.3 (I_O=50mA)					SSOP5	FSs	YES
BD733L05G-C	3.8 to 42.0	3.3								SSOP5	FSs	YES
BD750L05G-C	5.6 to 42.0	5.0			0.35 (I_O=50mA)					SSOP5	FSs	YES

36V耐压 300mA 固定输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Circuit Current (mA)	Operating Temperature (°C)	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD3650FP-M	5.6 to 30.0	5.0	±2 (T_a=−40 to +125°C)	0.3	0.2 (I_O=200mA)	0.5	T_a=−40 to +125	Over-Current/ Temperature	TO252-3	FSs	YES

35V耐压 2A 可变输出/固定输出 LDO稳压器

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Shutdown Switch	Protection Circuit	Package/Part No.			
											TO220FP-3	TO220FP-5	HRP5	TO263-5
BA15DD0	3.0 to 25.0	1.5	±1	2.0	0.9	0.45 (I_O=2A)	55	50 (I_O=0 to 2A)	—	Over-Voltage/ Over-Current/ Temperature	BA15DD0T	—	—	—
BA18DD0		1.8									BA18DD0T	—	—	—
BA25DD0		2.5									BA25DD0T	—	—	—
BA30DD0		3.0									BA30DD0T	—	—	—
BA33DD0		3.3									BA33DD0T	—	—	—
BA50DD0		5.0									BA50DD0T	—	—	—
BA90DD0		9.0									BA90DD0T	—	—	—
BAJ2DD0		12.0									BAJ2DD0T	—	—	—
BAJ6DD0		16.0									BAJ6DD0T	—	—	—
BA00DD0W		Variable 1.5 to 16.0							✓		—	BA00DD0WCP-V5 (TO220CP-V5)	BA00DD0WHFP	—
BA15DD0W		1.5									—	BA15DD0WT	BA15DD0WHFP	—
BA18DD0W		1.8									—	BA18DD0WT	BA18DD0WHFP	—
BA25DD0W		2.5									—	—	BA25DD0WHFP	—
BA30DD0W		3.0									—	BA30DD0WT	BA30DD0WHFP	—
BA33DD0W		3.3									—	BA33DD0WT	BA33DD0WHFP	—
BA50DD0W		5.0									—	BA50DD0WT	BA50DD0WHFP	—
BA90DD0W		9.0									—	BA90DD0WT	BA90DD0WHFP	—
BAJ2DD0W		12.0									—	BAJ2DD0WT	BAJ2DD0WHFP	—
BAJ6DD0W		16.0									—	BAJ6DD0WT	BAJ6DD0WHFP	—
BD00FD0W	4.0 to 32.0	Variable 1.5 to 16.0			0.5	0.4 (I_O=1A)		V_O*2×0.7% (I_O=5mA to 1A)		Over-Current/ Temperature	—	—	BD00FD0WHFP	BD00FD0WFP2
BD15FD0W		1.5	±1.5			—		V_O*2×2.0% (I_O=5mA to 1A)			—	—	BD15FD0WHFP	BD15FD0WFP2
BD18FD0W		1.8									—	—	BD18FD0WHFP	BD18FD0WFP2
BD25FD0W		2.5									—	—	BD25FD0WHFP	BD25FD0WFP2
BD30FD0W		3.0	±1								—	—	BD30FD0WHFP	BD30FD0WFP2
BD33FD0W		3.3						V_O*2×0.7% (I_O=5mA to 1A)			—	—	BD33FD0WHFP	BD33FD0WFP2
BD50FD0W	V_O+1.0V to 32.0	5.0				0.4 (I_O=1A)					—	—	BD50FD0WHFP	BD50FD0WFP2
BD80FD0W		8.0					50				—	—	BD80FD0WHFP	BD80FD0WFP2
BD90FD0W		9.0									—	—	BD90FD0WHFP	BD90FD0WFP2
BDJ2FD0W		12.0									—	—	BDJ2FD0WHFP	BDJ2FD0WFP2
BDJ5FD0W		15.0									—	—	BDJ5FD0WHFP	BDJ5FD0WFP2
BDJ6FD0W		16.0									—	—	BDJ6FD0WHFP	BDJ6FD0WFP2
BD00FDAW	4.0 to 32.0	Variable 1.5 to 30.0	±1 (T_a=25°C)				55				—	—	BD00FDAWHFP	—

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*2 V_O是输出电压，单位：V

低饱和稳压器(LDO)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

35V耐压 1A 可变输出/固定输出 LDO稳压器

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Shutdown Switch	Protection Circuit	Package/Part No.				
											TO220FP-3	TO220FP-5	TO252-3	TO252-5	HTSOP-J8
BA03CC0	4.0 to 25.0	3.0	±2	1.0	2.5	0.3 (I_O=500mA)	55	50 (I_O=5mA to 1A)	–	Over-Voltage/ Over-Current/ Temperature	BA03CC0T	–	BA03CC0FP	–	–
BA033CC0		3.3									BA033CC0T	–	BA033CC0FP	–	–
BA05CC0		5.0									BA05CC0T	–	BA05CC0FP	–	–
BA06CC0		6.0									–	–	BA06CC0FP	–	–
BA07CC0		7.0									BA07CC0T	–	BA07CC0FP	–	–
BA08CC0		8.0									BA08CC0T	–	BA08CC0FP	–	–
BA09CC0		9.0									BA09CC0T	–	BA09CC0FP	–	–
BAJ0CC0		10.0									BAJ0CC0T	–	BAJ0CC0FP	–	–
BAJ2CC0		12.0									BAJ2CC0T	–	BAJ2CC0FP	–	–
BAJ5CC0		15.0									BAJ5CC0T	–	BAJ5CC0FP	–	–
BA00CC0W		Variable 3.0 to 15.0							✓		–	BA00CC0WT/ BA00CC0WCP-V5 (TO220CP-V5)	–	BA00CC0WFP	–
BA03CC0W		3.0									–	BA03CC0WT	–	–	–
BA033CC0W		3.3									–	BA033CC0WT	–	BA033CC0WFP	–
BA05CC0W		5.0									–	BA05CC0WT	–	BA05CC0WFP	–
BA06CC0W		6.0									–	–	–	BA06CC0WFP	–
BA07CC0W		7.0									–	BA07CC0WT	–	BA07CC0WFP	–
BA08CC0W		8.0									–	BA08CC0WT	–	BA08CC0WFP	–
BA09CC0W		9.0									–	BA09CC0WT	–	BA09CC0WFP	–
BAJ0CC0W		10.0									–	BAJ0CC0WT	–	–	–
BAJ2CC0W		12.0									–	BAJ2CC0WT	–	BAJ2CC0WFP	–
BD33FC0	4.3 to 26.5	3.3	±1		0.5	–		V_O*2×0.01 (I_O=5mA to 1A)	–	Over-Current/ Temperature	–	–	BD33FC0FP	–	–
BD50FC0	6.0 to 26.5	5.0				0.3 (I_O=500mA)					–	–	BD50FC0FP	–	–
BD00FC0W	4.0 to 26.5	Variable 1.0 to 15.0							✓		–	–	–	BD00FC0WFP	BD00FC0WEFJ
BD30FC0W		3.0				–					–	–	–	BD30FC0WFP	BD30FC0WEFJ
BD33FC0W	4.3 to 26.5	3.3									–	–	–	BD33FC0WFP	BD33FC0WEFJ
BD50FC0W	6.0 to 26.5	5.0				0.3 (I_O=500mA)					–	–	–	BD50FC0WFP	BD50FC0WEFJ
BD60FC0W	7.0 to 26.5	6.0					50				–	–	–	BD60FC0WFP	BD60FC0WEFJ
BD70FC0W	8.0 to 26.5	7.0									–	–	–	BD70FC0WFP	BD70FC0WEFJ
BD80FC0W	9.0 to 26.5	8.0									–	–	–	BD80FC0WFP	BD80FC0WEFJ
BD90FC0W	10.0 to 26.5	9.0									–	–	–	BD90FC0WFP	BD90FC0WEFJ
BDJ0FC0W	11.0 to 26.5	10.0									–	–	–	BDJ0FC0WFP	BDJ0FC0WEFJ
BDJ2FC0W	13.0 to 26.5	12.0									–	–	–	BDJ2FC0WFP	BDJ2FC0WEFJ
BDJ5FC0W	16.0 to 26.5	15.0									–	–	–	BDJ5FC0WFP	BDJ5FC0WEFJ

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Shutdown Switch	Protection Circuit	Package/Part No.					ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
											TO252-3	TO252-5	HRP5	TO263-3	TO263-5		
BD33C0A	4.3 to 26.5	3.3	±3 (T_a=−40 to +125°C)	1.0	0.5	–	55	V_O*2×0.01 (I_O=5mA to 1A)	–	Over-Current/ Temperature	BD33C0AFP-C	–	BD33C0AHFP-C	BD33C0AFP2-C	–	FSs	YES
BD50C0A	6.0 to 26.5	5.0				0.3 (I_O=500mA)					BD50C0AFP-C	–	BD50C0AHFP-C	BD50C0AFP2-C	–	FSs	YES
BD80C0A	9.0 to 26.5	8.0					50				BD80C0AFP-C	–	BD80C0AHFP-C	BD80C0AFP2-C	–	FSs	YES
BD90C0A	10.0 to 26.5	9.0									BD90C0AFP-C	–	BD90C0AHFP-C	BD90C0AFP2-C	–	FSs	YES
BD33C0AW	4.3 to 26.5	3.3	±3 (T_a=−40 to +125°C)			–	55		✓		–	BD33C0AWFP/ BD33C0AWFP-C	–/ BD33C0AWHFP-C	–	–/ BD33C0AWFP2-C	–/FSs	–/YES
BD50C0AW	6.0 to 26.5	5.0				0.3 (I_O=500mA)					–	BD50C0AWFP/ BD50C0AWFP-C	–/ BD50C0AWHFP-C	–	–/ BD50C0AWFP2-C	–/FSs	–/YES
BD80C0AW	9.0 to 26.5	8.0					50				–	BD80C0AWFP-C	BD80C0AWHFP-C	–	BD80C0AWFP2-C	FSs	YES
BD90C0AW	10.0 to 26.5	9.0									–	BD90C0AWFP-C	BD90C0AWHFP-C	–	BD90C0AWFP2-C	FSs	YES

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Shutdown Switch	Protection Circuit	Package/Part No.				ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
											TO252-5	HRP5	TO263-5	TO220CP-V5		
BD00C0AW	4.0 to 26.5	Variable 3.0 to 15.0/ Variable 1.0 to 15.0	±1/±3 (T_a=−40 to +125°C)	1.0	0.5	0.3 (I_O=500mA)	55	V_O*2×0.01 (I_O=5mA to 1A)	✓	Over-Current/ Temperature	BD00C0AWFP/ BD00C0AWFP-C	–/ BD00C0AWHFP-C	–/ BD00C0AWFP2-C	BD00C0AWCP-V5/ –	–/FSs	–/YES

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*2 V_O是输出电压，单位：V

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

35V耐压 300mA 输出可变LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation	Protection Circuit	Package
BA3662CP-V5	4 to 25	Variable 3.0 to 15.0	±2	0.3	2.5	0.3 (I_O=0.2A)	55	40mV (I_O=5 to 200mA)	Over-Voltage/ Over-Current/ Temperature	TO220CP-V5

30V耐压 100mA 可变输出/固定输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Load Regulation (%)	Protection Circuit	Input Capacitor (µF)	Output Capacitor (µF)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD33FA1FP3	V_O+3 to 25	3.3	±1	0.1	0.3	1 (I_O=100mA)	±1.5	Over-Current/ Temperature	1.0	1.0	SOT89-3K	–	–
BD50FA1FP3		5.0									SOT89-3K	–	–
BD54FA1FP3		5.4									SOT89-3K	–	–
BDJ2FA1FP3		12.0			0.4						SOT89-3K	–	–
BD50FA1MG-M		5.0	±1.5 (T_a=25˚C), ±2 (T_a=–40˚C to +105˚C)		0.3	1.5 (I_O=100mA, T_a=–40˚C to +105˚C)			2.2	2.2	SSOP5	FSs	YES
BD00FA1WEFJ		Variable 3.0 to 12.0	±1			2 (I_O=100mA)					HTSOP-J8	–	–

20V耐压 500mA 输出可变 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Circuit Current (µA)	I/O Voltage Difference (V)	Load Regulation (mV)	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New **BDL00A5NUF-C**	2.9 to 18	1 to 17	±2	0.5	30	0.28 (I_O=500mA)	15 (5V, I_O=0.1mA to 500mA)	Over-Current/ Temperature	VSON10FV3030	FSs	YES
New **BDL00A5EFJ-C**		1 to 17	±2						HTSOP-J8	FSs	YES

18V耐压 1.5A 可变输出/固定输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (µF)	Output Capacitor (µF)	Shutdown Switch	Protection Circuit	Package
BA15JC5T	3.0 to 16.0	1.5	±1	1.5	0.5	0.3 (I_O=500mA)	55	5 (I_O=5mA to 1.5A)	0.33	22.0	–	Over-Current/ Temperature	TO220FP-3
BA18JC5T		1.8											TO220FP-3
BA25JC5T		2.5											TO220FP-3
BA30JC5T		3.0											TO220FP-3
BA33JC5T		3.3											TO220FP-3
BA50JC5T		5.0											TO220FP-3
BA60JC5T		6.0											TO220FP-3
BA80JC5T		8.0					53						TO220FP-3
BA90JC5T		9.0					52						TO220FP-3
BA00JC5WT		Variable 1.5 to 12.0					50				✓		TO220FP-5

18V耐压 1A 可变输出/固定输出 LDO稳压器

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (µF)	Output Capacitor (µF)	Shutdown Switch	Protection Circuit	Package/Part No.			
													TO252-3	TO252-5	TO220FP-3	TO220FP-5
BA15BC0	3.0 to 16.0	1.5	±2	1.0	0.5	0.3 (I_O=200mA)	55	35 (I_O=0 to 1A)	0.33	22.0	–	Over-Current/ Temperature	BA15BC0FP	–	BA15BC0T	–
BA18BC0		1.8											BA18BC0FP	–	BA18BC0T	–
BA25BC0		2.5											BA25BC0FP	–	BA25BC0T	–
BA30BC0		3.0											BA30BC0FP	–	BA30BC0T	–
BA33BC0		3.3											BA33BC0FP	–	BA33BC0T	–
BA50BC0		5.0											BA50BC0FP	–	BA50BC0T	–
BA60BC0		6.0											BA60BC0FP	–	BA60BC0T	–
BA70BC0		7.0											BA70BC0FP	–	BA70BC0T	–
BA80BC0		8.0											BA80BC0FP	–	BA80BC0T	–
BA90BC0		9.0											BA90BC0FP	–	BA90BC0T	–
BAJ0BC0		10.0											BAJ0BC0FP	–	BAJ0BC0T	–
BA00BC0W		Variable 1.5 to 12.0			0.5 (V_O≤6.0)						✓		–	BA00BC0WFP/ BA00BC0WCP-V5 (TO220CP-V5)	–	BA00BC0WT
BA15BC0W		1.5			0.5								–	BA15BC0WFP	–	BA15BC0WT
BA18BC0W		1.8											–	BA18BC0WFP	–	BA18BC0WT
BA25BC0W		2.5											–	BA25BC0WFP	–	BA25BC0WT
BA30BC0W		3.0											–	BA30BC0WFP	–	BA30BC0WT
BA33BC0W		3.3											–	BA33BC0WFP	–	BA33BC0WT
BA50BC0W		5.0											–	BA50BC0WFP	–	BA50BC0WT
BA60BC0W		6.0											–	BA60BC0WFP	–	BA60BC0WT
BA70BC0W		7.0											–	BA70BC0WFP	–	BA70BC0WT
BA80BC0W		8.0											–	BA80BC0WFP	–	BA80BC0WT
BA90BC0W		9.0											–	BA90BC0WFP	–	BA90BC0WT
BAJ0BC0W		10.0											–	BAJ0BC0WFP	–	BAJ0BC0WT

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低饱和稳压器(LDO)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

15V耐压 1A 可变输出/固定输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
Consumer/Automotive Grade															
BD00GC0WEFJ/ New BD00GC0VEFJ-M	4.5 to 14.0	Variable 1.5 to 13.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C) <Automotive Grade>	1.0	0.6	0.6 (I_O=1A)	60 (f=100Hz, 50mV$_{PP}$, I_O=0A)	25 (I_O=0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—/FSs	—/YES
BD15GC0WEFJ/ New BD15GC0VEFJ-M		1.5											HTSOP-J8	—/FSs	—/YES
BD18GC0WEFJ/ New BD18GC0VEFJ-M		1.8											HTSOP-J8	—/FSs	—/YES
BD25GC0WEFJ/ New BD25GC0VEFJ-M		2.5											HTSOP-J8	—/FSs	—/YES
BD30GC0WEFJ/ New BD30GC0VEFJ-M		3.0											HTSOP-J8	—/FSs	—/YES
BD33GC0WEFJ/ New BD33GC0VEFJ-M		3.3											HTSOP-J8	—/FSs	—/YES
BD50GC0WEFJ/ New BD50GC0VEFJ-M		5.0											HTSOP-J8	—/FSs	—/YES
BD60GC0WEFJ/ New BD60GC0VEFJ-M		6.0											HTSOP-J8	—/FSs	—/YES
BD70GC0WEFJ/ New BD70GC0VEFJ-M		7.0											HTSOP-J8	—/FSs	—/YES
BD80GC0WEFJ/ New BD80GC0VEFJ-M		8.0											HTSOP-J8	—/FSs	—/YES
BD90GC0WEFJ/ New BD90GC0VEFJ-M		9.0											HTSOP-J8	—/FSs	—/YES
BDJ0GC0WEFJ/ New BDJ0GC0VEFJ-M		10.0											HTSOP-J8	—/FSs	—/YES
BDJ2GC0WEFJ/ New BDJ2GC0VEFJ-M		12.0											HTSOP-J8	—/FSs	—/YES

15V耐压 1A 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
New BD00GC0VEFJ-LB	4.5 to 14.0	Variable 1.5 to 13.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	1.0	0.6	0.6 (I_O=1A)	60 (f=100Hz, 50mV$_{PP}$, I_O=0A)	25 (I_O=0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
New BD15GC0VEFJ-LB		1.5											HTSOP-J8
New BD18GC0VEFJ-LB		1.8											HTSOP-J8
New BD25GC0VEFJ-LB		2.5											HTSOP-J8
New BD30GC0VEFJ-LB		3.0											HTSOP-J8
New BD33GC0VEFJ-LB		3.3											HTSOP-J8
New BD50GC0VEFJ-LB		5.0											HTSOP-J8
New BD60GC0VEFJ-LB		6.0											HTSOP-J8
New BD70GC0VEFJ-LB		7.0											HTSOP-J8
New BD80GC0VEFJ-LB		8.0											HTSOP-J8
New BD90GC0VEFJ-LB		9.0											HTSOP-J8
New BDJ0GC0VEFJ-LB		10.0											HTSOP-J8
New BDJ2GC0VEFJ-LB		12.0											HTSOP-J8

15V耐压 500mA 可变输出/固定输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
Consumer/Automotive Grade															
BD00GA5WEFJ/ New BD00GA5VEFJ-M	4.5 to 14.0	Variable 1.5 to 13.0	±1 (T_a=25°C), ±3 (T_a=−40 to +105°C) <Automotive Grade>	0.5	0.6	0.6 (I_O=500mA)	60 (f=100Hz, 50mV$_{PP}$, I_O=0A)	25 (I_O=0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—/FSs	—/YES
BD15GA5WEFJ/ New BD15GA5VEFJ-M		1.5											HTSOP-J8	—/FSs	—/YES
BD18GA5WEFJ/ New BD18GA5VEFJ-M		1.8											HTSOP-J8	—/FSs	—/YES
BD25GA5WEFJ/ New BD25GA5VEFJ-M		2.5											HTSOP-J8	—/FSs	—/YES
BD30GA5WEFJ/ New BD30GA5VEFJ-M		3.0											HTSOP-J8	—/FSs	—/YES
BD33GA5WEFJ/ New BD33GA5VEFJ-M		3.3											HTSOP-J8	—/FSs	—/YES
BD50GA5WEFJ/ New BD50GA5VEFJ-M		5.0											HTSOP-J8	—/FSs	—/YES
BD60GA5WEFJ/ New BD60GA5VEFJ-M		6.0											HTSOP-J8	—/FSs	—/YES
BD70GA5WEFJ/ New BD70GA5VEFJ-M		7.0											HTSOP-J8	—/FSs	—/YES
BD80GA5WEFJ/ New BD80GA5VEFJ-M		8.0											HTSOP-J8	—/FSs	—/YES
BD90GA5WEFJ/ New BD90GA5VEFJ-M		9.0											HTSOP-J8	—/FSs	—/YES
BDJ0GA5WEFJ/ New BDJ0GA5VEFJ-M		10.0											HTSOP-J8	—/FSs	—/YES
BDJ2GA5WEFJ/ New BDJ2GA5VEFJ-M		12.0											HTSOP-J8	—/FSs	—/YES

15V耐压 500mA 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
New BD00GA5VEFJ-LB	4.5 to 14.0	Variable 1.5 to 13.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	0.5	0.6	0.6 (I_O=500mA)	60 (f=100Hz, 50mV$_{PP}$, I_O=0A)	25 (I_O=0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
New BD15GA5VEFJ-LB		1.5											HTSOP-J8
New BD18GA5VEFJ-LB		1.8											HTSOP-J8
New BD25GA5VEFJ-LB		2.5											HTSOP-J8
New BD30GA5VEFJ-LB		3.0											HTSOP-J8
New BD33GA5VEFJ-LB		3.3											HTSOP-J8
New BD50GA5VEFJ-LB		5.0											HTSOP-J8
New BD60GA5VEFJ-LB		6.0											HTSOP-J8
New BD70GA5VEFJ-LB		7.0											HTSOP-J8
New BD80GA5VEFJ-LB		8.0											HTSOP-J8
New BD90GA5VEFJ-LB		9.0											HTSOP-J8
New BDJ0GA5VEFJ-LB		10.0											HTSOP-J8
New BDJ2GA5VEFJ-LB		12.0											HTSOP-J8

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15V耐压 300mA 可变输出/固定输出 LDO稳压器

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package/Part No. HTSOP-J8	Package/Part No. VSON008X2030	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New BD00GA3V	4.5 to 14.0	Variable 1.5 to 13.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	0.3	0.6	0.6 (I_O=300mA)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 300mA)	1.0	1.0	✓	Over-Current/ Temperature	BD00GA3VEFJ-M	—	FSs	YES
New BD15GA3V		1.5											BD15GA3VEFJ-M	—	FSs	YES
New BD18GA3V		1.8											BD18GA3VEFJ-M	—	FSs	YES
New BD25GA3V		2.5											BD25GA3VEFJ-M	—	FSs	YES
New BD30GA3V		3.0											BD30GA3VEFJ-M	—	FSs	YES
New BD33GA3V		3.3											BD33GA3VEFJ-M	—	FSs	YES
New BD50GA3V		5.0											BD50GA3VEFJ-M	—	FSs	YES
New BD60GA3V		6.0											BD60GA3VEFJ-M	—	FSs	YES
New BD70GA3V		7.0											BD70GA3VEFJ-M	—	FSs	YES
New BD80GA3V		8.0											BD80GA3VEFJ-M	—	FSs	YES
New BD90GA3V		9.0											BD90GA3VEFJ-M	—	FSs	YES
New BDJ0GA3V		10.0											BDJ0GA3VEFJ-M	—	FSs	YES
New BDJ2GA3V		12.0											BDJ2GA3VEFJ-M	—	FSs	YES
BD00GA3W		Variable 1.5 to 13.0	±1										BD00GA3WEFJ	BD00GA3WNUX	—	—
BD15GA3W		1.5											BD15GA3WEFJ	BD15GA3WNUX	—	—
BD18GA3W		1.8											BD18GA3WEFJ	BD18GA3WNUX	—	—
BD25GA3W		2.5											BD25GA3WEFJ	BD25GA3WNUX	—	—
BD30GA3W		3.0											BD30GA3WEFJ	BD30GA3WNUX	—	—
BD33GA3W		3.3											BD33GA3WEFJ	BD33GA3WNUX	—	—
BD50GA3W		5.0											BD50GA3WEFJ	BD50GA3WNUX	—	—
BD60GA3W		6.0											BD60GA3WEFJ	BD60GA3WNUX	—	—
BD70GA3W		7.0											BD70GA3WEFJ	BD70GA3WNUX	—	—
BD80GA3W		8.0											BD80GA3WEFJ	BD80GA3WNUX	—	—
BD90GA3W		9.0											BD90GA3WEFJ	BD90GA3WNUX	—	—
BDJ0GA3W		10.0											BDJ0GA3WEFJ	BDJ0GA3WNUX	—	—
BDJ2GA3W		12.0											BDJ2GA3WEFJ	BDJ2GA3WNUX	—	—

10V耐压 1.5A 可变输出/固定输出 LDO稳压器

Part No. Consumer/Automotive Grade	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00HC5WEFJ/ New BD00HC5VEFJ-M	4.5 to 8.0	Variable 1.5 to 7.0	±1 (T_a=25°C), ±3 (T_a=−40 to +105°C) <Automotive Grade>	1.5	0.6	0.6 (I_O=1.5A)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 1.5A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—/FSs	—/YES
BD15HC5WEFJ/ New BD15HC5VEFJ-M		1.5											HTSOP-J8	—/FSs	—/YES
BD18HC5WEFJ/ New BD18HC5VEFJ-M		1.8											HTSOP-J8	—/FSs	—/YES
BD25HC5WEFJ/ New BD25HC5VEFJ-M		2.5											HTSOP-J8	—/FSs	—/YES
BD30HC5WEFJ/ New BD30HC5VEFJ-M		3.0											HTSOP-J8	—/FSs	—/YES
BD33HC5WEFJ/ New BD33HC5VEFJ-M		3.3											HTSOP-J8	—/FSs	—/YES
BD50HC5WEFJ/ New BD50HC5VEFJ-M		5.0											HTSOP-J8	—/FSs	—/YES
BD60HC5WEFJ/ New BD60HC5VEFJ-M		6.0											HTSOP-J8	—/FSs	—/YES
BD70HC5WEFJ/ New BD70HC5VEFJ-M		7.0											HTSOP-J8	—/FSs	—/YES

10V耐压 1.5A 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
New BD00HC5VEFJ-LB	4.5 to 8.0	Variable 1.5 to 7.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	1.5	0.6	0.6 (I_O=1.5A)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 1.5A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
New BD15HC5VEFJ-LB		1.5											HTSOP-J8
New BD18HC5VEFJ-LB		1.8											HTSOP-J8
New BD25HC5VEFJ-LB		2.5											HTSOP-J8
New BD30HC5VEFJ-LB		3.0											HTSOP-J8
New BD33HC5VEFJ-LB		3.3											HTSOP-J8
New BD50HC5VEFJ-LB		5.0											HTSOP-J8
New BD60HC5VEFJ-LB		6.0											HTSOP-J8
New BD70HC5VEFJ-LB		7.0											HTSOP-J8

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低饱和稳压器(LDO)

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10V耐压 1A 可变输出/固定输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (µF)	Output Capacitor (µF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
Consumer/Automotive Grade															
BD00HC0WEFJ/ New BD00HC0VEFJ-M	4.5 to 8.0	Variable 0.8 to 7.0 (Automotive Grade Variable 1.5 to 7.0)	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C) <Automotive Grade>	1.0	0.6	0.6 (I_O=1A)	60 (f=100Hz, 50mV$_{PP}$, I_O=0A)	25 (I_O=0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—/FSs	—/YES
BD15HC0WEFJ/ New BD15HC0VEFJ-M		1.5											HTSOP-J8	—/FSs	—/YES
BD18HC0WEFJ/ New BD18HC0VEFJ-M		1.8											HTSOP-J8	—/FSs	—/YES
BD25HC0WEFJ/ New BD25HC0VEFJ-M		2.5											HTSOP-J8	—/FSs	—/YES
BD30HC0WEFJ/ New BD30HC0VEFJ-M		3.0											HTSOP-J8	—/FSs	—/YES
BD33HC0WEFJ/ New BD33HC0VEFJ-M		3.3											HTSOP-J8	—/FSs	—/YES
BD50HC0WEFJ/ New BD50HC0VEFJ-M		5.0											HTSOP-J8	—/FSs	—/YES
BD60HC0WEFJ/ New BD60HC0VEFJ-M		6.0											HTSOP-J8	—/FSs	—/YES
BD70HC0WEFJ/ New BD70HC0VEFJ-M		7.0											HTSOP-J8	—/FSs	—/YES

10V耐压 1A 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (µF)	Output Capacitor (µF)	Shutdown Switch	Protection Circuit	Package
New BD00HC0VEFJ-LB	4.5 to 8.0	Variable 1.5 to 7.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	1.0	0.6	0.6 (I_O=1A)	60 (f=100Hz, 50mV$_{PP}$, I_O=0A)	25 (I_O=0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
New BD15HC0VEFJ-LB		1.5											HTSOP-J8
New BD18HC0VEFJ-LB		1.8											HTSOP-J8
New BD25HC0VEFJ-LB		2.5											HTSOP-J8
New BD30HC0VEFJ-LB		3.0											HTSOP-J8
New BD33HC0VEFJ-LB		3.3											HTSOP-J8
New BD50HC0VEFJ-LB		5.0											HTSOP-J8
New BD60HC0VEFJ-LB		6.0											HTSOP-J8
New BD70HC0VEFJ-LB		7.0											HTSOP-J8

10V耐压 500mA 可变输出/固定输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (µF)	Output Capacitor (µF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
Consumer/Automotive Grade															
BD00HA5WEFJ/ New BD00HA5VEFJ-M	4.5 to 8.0	Variable 1.5 to 7.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C) <Automotive Grade>	0.5	0.6	0.6 (I_O=500mA)	60 (f=100Hz, 50mV$_{PP}$, I_O=0A)	25 (I_O=0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—/FSs	—/YES
BD15HA5WEFJ/ New BD15HA5VEFJ-M		1.5											HTSOP-J8	—/FSs	—/YES
BD18HA5WEFJ/ New BD18HA5VEFJ-M		1.8											HTSOP-J8	—/FSs	—/YES
BD25HA5WEFJ/ New BD25HA5VEFJ-M		2.5											HTSOP-J8	—/FSs	—/YES
BD30HA5WEFJ/ New BD30HA5VEFJ-M		3.0											HTSOP-J8	—/FSs	—/YES
BD33HA5WEFJ/ New BD33HA5VEFJ-M		3.3											HTSOP-J8	—/FSs	—/YES
BD50HA5WEFJ/ New BD50HA5VEFJ-M		5.0											HTSOP-J8	—/FSs	—/YES
BD60HA5WEFJ/ New BD60HA5VEFJ-M		6.0											HTSOP-J8	—/FSs	—/YES
BD70HA5WEFJ/ New BD70HA5VEFJ-M		7.0											HTSOP-J8	—/FSs	—/YES

10V耐压 300mA 可变输出/固定输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (µF)	Output Capacitor (µF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
Consumer/Automotive Grade															
BD00HA3WEFJ/ New BD00HA3VEFJ-M	4.5 to 8.0	Variable 1.5 to 7.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C) <Automotive Grade>	0.3	0.6	0.6 (I_O=300mA)	60 (f=100Hz, 50mV$_{PP}$, I_O=0A)	25 (I_O=0 to 300mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	—/FSs	—/YES
BD15HA3WEFJ/ New BD15HA3VEFJ-M		1.5											HTSOP-J8	—/FSs	—/YES
BD18HA3WEFJ/ New BD18HA3VEFJ-M		1.8											HTSOP-J8	—/FSs	—/YES
BD25HA3WEFJ/ New BD25HA3VEFJ-M		2.5											HTSOP-J8	—/FSs	—/YES
BD30HA3WEFJ/ New BD30HA3VEFJ-M		3.0											HTSOP-J8	—/FSs	—/YES
BD33HA3WEFJ/ New BD33HA3VEFJ-M		3.3											HTSOP-J8	—/FSs	—/YES
BD50HA3WEFJ/ New BD50HA3VEFJ-M		5.0											HTSOP-J8	—/FSs	—/YES
BD60HA3WEFJ/ New BD60HA3VEFJ-M		6.0											HTSOP-J8	—/FSs	—/YES
BD70HA3WEFJ/ New BD70HA3VEFJ-M		7.0											HTSOP-J8	—/FSs	—/YES

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*1 "ComfySIL™ 功能安全类别" 的详情请参阅封二。

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

10V耐压 300mA 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection circuit	Package
New BD00HA3VEFJ-LB	4.5 to 8.0	Variable 1.5 to 7.0	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	0.3	0.6	0.6 (I_O=300mA)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 300mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
New BD15HA3VEFJ-LB		1.5											HTSOP-J8
New BD18HA3VEFJ-LB		1.8											HTSOP-J8
New BD25HA3VEFJ-LB		2.5											HTSOP-J8
New BD30HA3VEFJ-LB		3.0											HTSOP-J8
New BD33HA3VEFJ-LB		3.3											HTSOP-J8
New BD50HA3VEFJ-LB		5.0											HTSOP-J8
New BD60HA3VEFJ-LB		6.0											HTSOP-J8
New BD70HA3VEFJ-LB		7.0											HTSOP-J8

7V耐压 1A 可变输出/固定输出 LDO稳压器

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package/Part No.		ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
													HTSOP-J8	HVSOF6		
BD00IC0W	2.4 to 5.5	Variable 0.8 to 4.5	±1	1.0	0.3	0.4 (I_O=1A)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	BD00IC0WEFJ	BD00IC0WHFV	—	—
BD10IC0W		1.0											BD10IC0WEFJ	BD10IC0WHFV	—	—
BD12IC0W		1.2											BD12IC0WEFJ	BD12IC0WHFV	—	—
BD1CIC0W		1.25											—	BD1CIC0WHFV	—	—
BD15IC0W		1.5											BD15IC0WEFJ	BD15IC0WHFV	—	—
BD18IC0W		1.8											BD18IC0WEFJ	BD18IC0WHFV	—	—
BD25IC0W		2.5											BD25IC0WEFJ	BD25IC0WHFV	—	—
BD26IC0W		2.6											—	BD26IC0WHFV	—	—
BD30IC0W		3.0											BD30IC0WEFJ	BD30IC0WHFV	—	—
BD33IC0W		3.3											BD33IC0WEFJ	BD33IC0WHFV	—	—
New BD00IC0V		Variable 0.8 to 4.5	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)										BD00IC0VEFJ-M	—	FSs	YES
New BD10IC0V		1.0											BD10IC0VEFJ-M	—	FSs	YES
New BD12IC0V		1.2											BD12IC0VEFJ-M	—	FSs	YES
New BD15IC0V		1.5											BD15IC0VEFJ-M	—	FSs	YES
New BD18IC0V		1.8											BD18IC0VEFJ-M	—	FSs	YES
New BD25IC0V		2.5											BD25IC0VEFJ-M	—	FSs	YES
New BD30IC0V		3.0											BD30IC0VEFJ-M	—	FSs	YES
New BD33IC0V		3.3											BD33IC0VEFJ-M	—	FSs	YES
													BD33IC0VEFJ-C	—	FSs	YES

7V耐压 1A 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection circuit	Package
New BD00IC0VEFJ-LB	2.3 to 5.5	Variable 0.8 to 4.5	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	1.0	0.3	0.4 (I_O=1A)	60 (f=100Hz, 50mV_{PP}, I_O=0A)	25 (I_O=0 to 1A)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
New BD10IC0VEFJ-LB	2.4 to 5.5	1.0											HTSOP-J8
New BD12IC0VEFJ-LB		1.2											HTSOP-J8
New BD15IC0VEFJ-LB		1.5											HTSOP-J8
New BD18IC0VEFJ-LB		1.8											HTSOP-J8
New BD25IC0VEFJ-LB		2.5											HTSOP-J8
New BD30IC0VEFJ-LB		3.0											HTSOP-J8
New BD33IC0VEFJ-LB		3.3											HTSOP-J8

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低饱和稳压器(LDO)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

7V耐压 500mA 可变输出/固定输出 LDO稳压器 (BDxxKA5系列)

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package/Part No.		
													TO252-3	TO252-5	SOP8
BD10KA5	2.3 to 5.5	1.0	±1	0.5	0.35	0.12 (I_O=200mA)	50	25 (I_O=0 to 500mA)	1.0	1.0	–	Over-Current/ Temperature	BD10KA5FP	–	–
BD12KA5		1.2											BD12KA5FP	–	–
BD15KA5		1.5											BD15KA5FP	–	–
BD18KA5		1.8											BD18KA5FP	–	–
BD25KA5		2.5											BD25KA5FP	–	–
BD30KA5		3.0											BD30KA5FP	–	–
BD33KA5		3.3											BD33KA5FP	–	–
BD00KA5W		Variable 1.0 to 4.0									✓		–	BD00KA5WFP	BD00KA5WF
BD10KA5W		1.0											–	BD10KA5WFP	BD10KA5WF
BD12KA5W		1.2											–	BD12KA5WFP	BD12KA5WF
BD15KA5W		1.5											–	BD15KA5WFP	BD15KA5WF
BD18KA5W		1.8											–	BD18KA5WFP	BD18KA5WF
BD25KA5W		2.5											–	BD25KA5WFP	BD25KA5WF
BD30KA5W		3.0											–	BD30KA5WFP	BD30KA5WF
BD33KA5W		3.3											–	BD33KA5WFP	BD33KA5WF

7V耐压 500mA 可变输出/固定输出 LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD00IA5WEFJ	2.4 to 5.5	Variable 0.8 to 4.5	±1	0.5	0.25	0.4 (I_O=500mA)	60 (f=100Hz, $50mV_{PP}$, I_O=0A)	25 (I_O=0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8	–	–
BD10IA5WEFJ		1.0											HTSOP-J8	–	–
BD12IA5WEFJ		1.2											HTSOP-J8	–	–
BD15IA5WEFJ		1.5											HTSOP-J8	–	–
BD18IA5WEFJ		1.8											HTSOP-J8	–	–
BD25IA5WEFJ		2.5											HTSOP-J8	–	–
BD30IA5WEFJ		3.0											HTSOP-J8	–	–
BD33IA5WEFJ		3.3											HTSOP-J8	–	–
New BD00IA5VEFJ-M/ BD00IA5MHFV-M		Variable 0.8 to 4.5	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)										HTSOP-J8/ HVSOF6	FSs	YES
New BD10IA5VEFJ-M		1.0											HTSOP-J8	FSs	YES
New BD12IA5VEFJ-M		1.2											HTSOP-J8	FSs	YES
New BD15IA5VEFJ-M		1.5											HTSOP-J8	FSs	YES
New BD18IA5VEFJ-M		1.8											HTSOP-J8	FSs	YES
New BD25IA5VEFJ-M		2.5											HTSOP-J8	FSs	YES
New BD30IA5VEFJ-M		3.0											HTSOP-J8	FSs	YES
New BD33IA5VEFJ-M		3.3											HTSOP-J8	FSs	YES

7V耐压 500mA 可变输出/固定输出 LDO稳压器(工业设备用)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (mA)	I/O Voltage Difference (V)	Ripple Rejection (dB)	Load Regulation (mV)	Input Capacitor (μF)	Output Capacitor (μF)	Shutdown Switch	Protection Circuit	Package
New BD00IA5VEFJ-LB	2.4 to 5.5	Variable 0.8 to 4.5	±1 (T_a=+25°C), ±3 (T_a=−40 to +105°C)	0.5	0.25	0.4 (I_O=500mA)	60 (f=100Hz, $50mV_{PP}$, I_O=0A)	25 (I_O=0 to 500mA)	1.0	1.0	✓	Over-Current/ Temperature	HTSOP-J8
New BD10IA5VEFJ-LB		1.0											HTSOP-J8
New BD12IA5VEFJ-LB		1.2											HTSOP-J8
New BD15IA5VEFJ-LB		1.5											HTSOP-J8
New BD18IA5VEFJ-LB		1.8											HTSOP-J8
New BD25IA5VEFJ-LB		2.5											HTSOP-J8
New BD30IA5VEFJ-LB		3.0											HTSOP-J8
New BD33IA5VEFJ-LB		3.3											HTSOP-J8

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关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

6.5V耐压 500mA CMOS LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (μA)	I/O Voltage Difference (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package
BU18SD5WG	1.7 to 6.0	1.8	±2	0.5	33	150 (I_O=100mA)	68	0.5	Over-Current/ Temperature	SSOP5
BU33SD5WG		3.3				85 (I_O=100mA)				SSOP5

6.5V耐压 300mA CMOS LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (Max) (mV)	Ripple Rejection (dB)	Load Regulation (Max) (mV)	Circuit Current (μA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over-Current Protection	Temperature Protection	Discharge Function	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU12JA3DG-C	1.7 to 6.0	1.2	±2 (T_j=−40 to +150°C)	0.3	500 (I_O=300mA)	60 (f_{RR}=1kHz, I_{OUT}=300mA)	15 (I_{OUT}=1mA to 300mA)	37	0.1	1.0	✓	✓	✓	✓	SSOP5	FSs	YES
BU15JA3DG-C		1.5			365 (I_O=300mA)										SSOP5	FSs	YES
BU18JA3DG-C		1.8			330 (I_O=300mA)										SSOP5	FSs	YES
BU25JA3DG-C		2.5			240 (I_O=300mA)										SSOP5	FSs	YES
BU30JA3DG-C		3.0			220 (I_O=300mA)										SSOP5	FSs	YES
BU33JA3DG-C		3.3			200 (I_O=300mA)										SSOP5	FSs	YES

6.5V耐压 200mA CMOS LDO稳压器

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision	Output Current (A)	Vsat (V)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over-Current Protection	Temperature Protection	Discharge Function	Package/Part No.	
																SSON004X1010	SSOP5
BU10TD2W/BU10TD3W	1.7 to 6.0	1.0	±25mV	0.2	–	70	10 (I_O=0.01 to 100mA)	35	70	0.47	0.47	✓	✓	✓	✓	BU10TD2WNVX	BU10TD3WG
BU1ATD2W/—		1.05														BU1ATD2WNVX	–
BU11TD2W/BU11TD3W		1.1														BU11TD2WNVX	BU11TD3WG
BU1BTD2W/—		1.15														BU1BTD2WNVX	–
BU12TD2W/BU12TD3W		1.2														BU12TD2WNVX	BU12TD3WG
BU1CTD2W/BU1CTD3W		1.25														BU1CTD2WNVX	BU1CTD3WG
BU13TD2W/BU13TD3W		1.3														BU13TD2WNVX	BU13TD3WG
BU15TD2W/BU15TD3W		1.5														BU15TD2WNVX	BU15TD3WG
BU18TD2W/BU18TD3W		1.8														BU18TD2WNVX	BU18TD3WG
BU1JTD2W/BU1JTD3W		1.85														BU1JTD2WNVX	BU1JTD3WG
BU19TD2W/BU19TD3W		1.9														BU19TD2WNVX	BU19TD3WG
BU20TD2W/BU20TD3W		2.0														BU20TD2WNVX	BU20TD3WG
BU2ATD2W/—		2.05														BU2ATD2WNVX	–
BU21TD2W/BU21TD3W		2.1														BU21TD2WNVX	BU21TD3WG
BU23TD2W/—		2.3														BU23TD2WNVX	–
BU25TD2W/BU25TD3W		2.5	±1%		280 (I_O=200mA)											BU25TD2WNVX	BU25TD3WG
BU26TD2W/BU26TD3W		2.6														BU26TD2WNVX	BU26TD3WG
BU27TD2W/BU27TD3W		2.7			260 (I_O=200mA)											BU27TD2WNVX	BU27TD3WG
BU2HTD2W/—		2.75														BU2HTD2WNVX	–
BU28TD2W/BU28TD3W		2.8														BU28TD2WNVX	BU28TD3WG
BU2JTD2W/BU2JTD3W		2.85														BU2JTD2WNVX	BU2JTD3WG
BU29TD2W/BU29TD3W		2.9			240 (I_O=200mA)											BU29TD2WNVX	BU29TD3WG
BU30TD2W/BU30TD3W		3.0														BU30TD2WNVX	BU30TD3WG
BU31TD2W/BU31TD3W		3.1														BU31TD2WNVX	BU31TD3WG
BU32TD2W/BU32TD3W		3.2			220 (I_O=200mA)											BU32TD2WNVX	BU32TD3WG
BU33TD2W/BU33TD3W		3.3														BU33TD2WNVX	BU33TD3WG
BU34TD2W/BU34TD3W		3.4														BU34TD2WNVX	BU34TD3WG

Type	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision	Output Current (A)	Vsat (V)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over-Current Protection	Temperature Protection	Discharge Function	Package/Part No.	
																SSON004X1216	HVSOF5
BU15TA2W	2.5 to 5.5	1.5	±25mV	0.2	–	70	10 (I_O=0.01 to 100mA)	40	70	1.0	1.0	✓	✓	✓	✓	BU15TA2WNVX	BU15TA2WHFV
BU18TA2W		1.8														BU18TA2WNVX	BU18TA2WHFV
BU25TA2W		2.5	±1%		400 (I_O=200mA)	65										BU25TA2WNVX	BU25TA2WHFV
BU26TA2W		2.6														BU26TA2WNVX	BU26TA2WHFV
BU27TA2W		2.7			360 (I_O=200mA)											BU27TA2WNVX	BU27TA2WHFV
BU28TA2W		2.8														BU28TA2WNVX	BU28TA2WHFV
BU2JTA2W		2.85														BU2JTA2WNVX	BU2JTA2WHFV
BU29TA2W		2.9			330 (I_O=200mA)											BU29TA2WNVX	BU29TA2WHFV
BU30TA2W		3.0														BU30TA2WNVX	BU30TA2WHFV
BU31TA2W		3.1														BU31TA2WNVX	BU31TA2WHFV
BU32TA2W		3.2			300 (I_O=200mA)											BU32TA2WNVX	BU32TA2WHFV
BU33TA2W		3.3														BU33TA2WNVX	BU33TA2WHFV
BU34TA2W		3.4														BU34TA2WNVX	BU34TA2WHFV

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。

低饱和稳压器(LDO)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

6.5V耐压 200mA CMOS LDO稳压器

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (µA)	Output Short Current (mA)	Input Capacitor (µF)	Output Capacitor (µF)	Shut Down Switch	Over-Current Protection	Temperature Protection	Discharge Function	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU12SD2MG-M	1.7 to 6.0	1.2	±2 (T_a=−40 to +105˚C)	0.2	280 (I_{OUT}=100mA)	68 (f_{RR}=1kHz, I_{OUT}=10mA)	1 (I_{OUT}=1 to 200mA)	33	100	1.0	1.0	✓	✓	✓	–	SSOP5	FSs	YES
BU15SD2MG-M		1.5			180 (I_{OUT}=100mA)											SSOP5	FSs	YES
BU18SD2MG-M		1.8			150 (I_{OUT}=100mA)											SSOP5	FSs	YES
BU25SD2MG-M		2.5			100 (I_{OUT}=100mA)											SSOP5	FSs	YES
BU28SD2MG-M		2.8			85 (I_{OUT}=100mA)											SSOP5	FSs	YES
BU30SD2MG-M		3.0														SSOP5	FSs	YES
BU33SD2MG-M		3.3														SSOP5	FSs	YES
BU10JA2MNVX-C		1.0	±2		800 (I_{OUT}=200mA)	70 (f_{RR}=1kHz, I_{OUT}=10mA)	10 (I_{OUT}=0.01mA to 100mA)	35	70	0.47	0.47				✓	SSON004R1010	FSs	YES
BU11JA2MNVX-C		1.1														SSON004R1010	FSs	YES
BU12JA2MNVX-C		1.2			600 (I_{OUT}=200mA)											SSON004R1010	FSs	YES
BU1CJA2MNVX-C		1.25														SSON004R1010	FSs	YES
BU15JA2MNVX-C		1.5			440 (I_{OUT}=200mA)											SSON004R1010	FSs	YES
BU18JA2MNVX-C		1.8			380 (I_{OUT}=200mA)											SSON004R1010	FSs	YES
BU25JA2MNVX-C		2.5			280 (I_{OUT}=200mA)											SSON004R1010	FSs	YES
BU28JA2MNVX-C		2.8			260 (I_{OUT}=200mA)											SSON004R1010	FSs	YES
BU2JJA2MNVX-C		2.85														SSON004R1010	FSs	YES
BU29JA2MNVX-C		2.9			240 (I_{OUT}=200mA)											SSON004R1010	FSs	YES
BU30JA2MNVX-C		3.0														SSON004R1010	FSs	YES
BU33JA2MNVX-C		3.3			220 (I_{OUT}=200mA)											SSON004R1010	FSs	YES
BU34JA2MNVX-C		3.4														SSON004R1010	FSs	YES
BU10JA2VG-C		1.0			–	68 (f_{RR}=1kHz, I_{OUT}=10mA)	0.5 (I_{OUT}=1mA to 100mA)	33	100	1.0	1.0				–	SSOP5	FSs	YES
BU12JA2VG-C		1.2														SSOP5	FSs	YES
BU1CJA2VG-C		1.25														SSOP5	FSs	YES
BU15JA2VG-C		1.5														SSOP5	FSs	YES
BU18JA2VG-C		1.8			160 (I_{OUT}=100mA)											SSOP5	FSs	YES
BU25JA2VG-C		2.5			100 (I_{OUT}=100mA)											SSOP5	FSs	YES
BU28JA2VG-C		2.8			85 (I_{OUT}=100mA)											SSOP5	FSs	YES
BU2JJA2VG-C		2.85														SSOP5	FSs	YES
BU30JA2VG-C		3.0														SSOP5	FSs	YES
BU33JA2VG-C		3.3														SSOP5	FSs	YES
BU10JA2DG-C		1.0			–										✓	SSOP5	FSs	YES
BU12JA2DG-C		1.2														SSOP5	FSs	YES
BU1CJA2DG-C		1.25														SSOP5	FSs	YES
BU15JA2DG-C		1.5														SSOP5	FSs	YES
BU18JA2DG-C		1.8			160 (I_{OUT}=100mA)											SSOP5	FSs	YES
BU25JA2DG-C		2.5			100 (I_{OUT}=100mA)											SSOP5	FSs	YES
BU28JA2DG-C		2.8			85 (I_{OUT}=100mA)											SSOP5	FSs	YES
BU2JJA2DG-C		2.85														SSOP5	FSs	YES
BU30JA2DG-C		3.0														SSOP5	FSs	YES
BU33JA2DG-C		3.3														SSOP5	FSs	YES

6.5V耐压 200mA CMOS LDO稳压器 WL-CSP型

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision	Output Current (A)	Vsat (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Circuit Current (µA)	Output Short Current (mA)	Input Capacitor (µF)	Output Capacitor (µF)	Shut Down Switch	Over-Current Protection	Temperature Protection	Discharge Function	Package (mm)
BU18SA4WGWL	1.7 to 5.5	1.8	±50mV	0.2	150 (I_O=100mA)	70	2 (I_O=1 to 100mA)	40	100	1.0	1.0	✓	✓	✓	–	UCSP50L1 0.8×0.8, H=Max 0.55mm
BU25SA4WGWL		2.5	±2%		80 (I_O=100mA)											UCSP50L1 0.8×0.8, H=Max 0.55mm
BU2FSA4WGWL		2.55														UCSP50L1 0.8×0.8, H=Max 0.55mm
BU28SA4WGWL		2.8														UCSP50L1 0.8×0.8, H=Max 0.55mm
BU30SA4WGWL		3.0														UCSP50L1 0.8×0.8, H=Max 0.55mm
BU33SA4WGWL		3.3														UCSP50L1 0.8×0.8, H=Max 0.55mm

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*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

6V耐压 可输出超低电压 LDO稳压器

Part No.	Output Current (A)	Input Voltage (V)		Output Voltage (V)	Voltage Accuracy (%)	Power Good	Adjustable Soft Start	UVLO	OCP	TSD	Package
		V_{CC}	V_{IN}								
BD00JC0MNUX-M	1.0	3.0 to 5.5	0.95 to V_{CC}–1	Variable 0.65 to 2.70	±2	✓	✓	✓	Recovery	Recovery	VSON010X3030

5.5V耐压 500mA CMOS LDO稳压器 WL-CSP型

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	Bias Current (μA)	I/O Voltage Difference (mV)	Ripple Rejection (dB)	Load Regulation (mV)	Protection Circuit	Package
BU30SA5WGWZ	1.8 to 5.0	3	±1	0.5	33	80 (I_O=100mA)	70dB (f=1kHz)	6 (I_{OUT}=0.01mA to 300mA)	Over-Current/ Temperature	UCSP30L1
BU33SA5WGWZ		3.3								UCSP30L1

UVLO：低电压误动作防止、OCP：过流保护、TSD：温度保护

超低饱和稳压器(LDO)

超低饱和型、快速瞬态响应 LDO稳压器

Part No.	Output Current (A)	Input Voltage (V)		Output Voltage (V)	Voltage Accuracy (%)	Power Good	Adjustable Soft Start	UVLO	OCP	TSD	Package
		V_{CC}	V_{IN}								
BD3552HFN	2.0	4.3 to 5.5	0.95 to (V_{CC}–1)	0.65 to 2.70	±1	–	✓	✓	Recovery	Recovery	HSON8
BD3508MUV	3.0		0.75 to (V_{CC}–1)								VQFN020V4040
BD3540NUV	0.5	3.0 to 5.5	0.95 to (V_{CC}–1)	0.65 to 2.70	±1	✓	✓	✓	Recovery	Recovery	VSON010V3030
BD3541NUV	1.0										VSON010V3030

UVLO：低电压误动作防止、OCP：过流保护、TSD：温度保护

多通道输出 低饱和稳压器(LDO)

2ch 输出可选 CMOS LDO稳压器

Part No.	Input Voltage (V)	Selectable Output Voltage (V)										Output Voltage Precision (%)	Output Current (A)	Vsat (mV) (I_O=100mA)	Ripple Rejection (dB)	Load Regulation (%)	Circuit Current (μA)	Output Short Current (mA)	Input Capacitor (μF)	Output Capacitor (μF)	Shut Down Switch	Over-Current Protection	Temperature Protection	Low Voltage Protection	Package (mm)
		V_{OUT}																							
BD7602GUL	2.7 to 5.5	1ch	3.0									2	0.1	–	45	0.7	10	–	1.0	4.7	✓	✓	✓	✓	VCSP50L1C 1.6x1.6, H=Max 0.57
		2ch	2.8	2.9	2.95	3.0	3.05	3.1	3.2	3.3	–		0.15												

带看门狗计时器的低饱和稳压器(LDO)

50V耐压 低静态电流 500mA LDO稳压器＋看门狗计时器复位

Part No.	Input Voltage (V)	LDO				Voltage Detector			Circuit Current (μA)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Detection Voltage (V)	Voltage Detection Precision (%)	Function					
BD3021HFP	5.6 to 36.0	5	±2 (T_a=–40 to +125°C)	0.5	0.3 (I_O=200mA)	4.5	±2	4.5V Voltage Detector+WDT (Active switch)	80	T_a=–40 to +125	HRP7	FSs	YES
BD3020HFP						Variable (at Vs open: 4.1V)		Adjustable Voltage Detector+WDT			HRP7	FSs	YES

45V耐压 低静态电流 550mA LDO稳压器＋看门狗计时器复位

Part No.	Input Voltage (V)	LDO				Voltage Detector			Circuit Current (μA)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Detection Voltage (V)	Voltage Detection Precision (%)	Function					
BD4271EFJ-C	5.5 to 45.0	5	±2 (T_j=–40 to +150°C)	0.55	0.2 (I_O=300mA)	4.65	±2.6	4.65V Voltage Detector+WDT	75	T_j=–40 to +150	HTSOP-J8	FSs	YES
BD4271HFP-C											HRP7	FSs	YES
BD4271FP2-C											TO263-7	FSs	YES

45V耐压 低静态电流 200mA LDO稳压器＋看门狗计时器复位

Part No.	Input Voltage (V)	LDO				Voltage Detector			Circuit Current (μA)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Detection Voltage (V)	Voltage Detection Precision (%)	Function					
BD820F5UEFJ-C	5.9 to 42.0	5	±2 (T_j=–40 to +150°C)	0.2	0.4 (I_O=200mA)	4.2	±2.62	4.2V Voltage Detector+WDT	5	T_j=–40 to +150	HTSOP-J8	FSs	YES

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*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

带电压检测器的低饱和稳压器(LDO)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

45V耐压 低静态电流 500mA LDO稳压器+复位

Part No.	Input Voltage (V)	LDO				Voltage Detector		Shutdown Switch	Circuit Current (μA)	Operating Temperature (˚C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Detection Voltage (V)	Voltage Detection Precision (%)						
BD42754FPJ-C	5.5 to 45.0	5	±2 (T_j=−40 to +150˚C, V_{CC}=6.0 to 28V, I_O=5 to 400mA)	0.5	0.25 (I_O=300mA)	4.62	±2.8	—	75	T_j=−40 to +150	TO252-J5	FSs	YES
BD42754FP2-C											TO263-5	FSs	YES

45V耐压 低静态电流 200mA/300mA LDO稳压器+2ch复位

Part No.	Input Voltage (V)	LDO				Voltage Detector		Shutdown Switch	Circuit Current (μA)	Operating Temperature (˚C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		Output Voltage (V)	Output Voltage Precision (%)	Output Current (A)	I/O Voltage Difference (V)	Detection Voltage (V)	Voltage Detection Precision (%)						
BD4269FJ-C	5.5 to 45.0	5	±2 (T_j=−40 to +150˚C, V_{CC}=6.0 to 16V, I_O=1 to 100mA)	0.2	0.25 (I_O=100mA)	Variable (with RADJ not used: 4.62V)	±2.6	—	70	T_j=−40 to +150	SOP-J8	FSs	YES
BD4269UEFJ-C				0.3							HTSOP-J8	FSs	YES

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电压跟踪器

50V耐压 500mA 电压跟踪器

Part No.	Input Voltage (V)	Output Current (A)	Offset Voltage (mV)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (˚C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD3925FP-C	4.5 to 36.0	0.5	±10 (T_a=−40 to +125˚C, V_{CC}=6 to 36V, I_O=5 to 200mA)	0.25 (I_O=200mA)	45	T_a=−40 to +125	TO252-5	FSs	YES
BD3925HFP-C							HRP5	FSs	YES

45V耐压 250mA 电压跟踪器

Part No.	Input Voltage (V)	Output Current (A)	Offset Voltage (mV)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (˚C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD42530UEFJ-C	5.6*2 to 42.0	0.25	±10 (T_j=−40 to +150˚C, V_{CC}=6 to 32V, I_O=0.1 to 250mA)	0.28 (I_O=200mA)	40	T_j=−40 to +150	HTSOP-J8	FSs	YES
BD42530FP2-C							TO263-5	FSs	YES
BD42530FPJ-C							TO252-J5	FSs	YES

45V耐压 70mA 电压跟踪器

Part No.	Input Voltage (V)	Output Current (A)	Offset Voltage (mV)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (˚C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD42540FJ-C	5.4*2 to 42.0	0.07	±10 (T_j=−40 to +150˚C, V_{CC}=5.5 to 26V, I_O=0.1 to 60mA)	0.2 (I_O=70mA)	40	T_j=−40 to +150	SOP-J8	FSs	YES

45V耐压 50mA 电压跟踪器

Part No.	Input Voltage (V)	Output Current (A)	Offset Voltage (mV)	I/O Voltage Difference (V)	Circuit Current (μA)	Operating Temperature (˚C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD42500G-C	5.3*2 to 42.0	0.05	±15 (T_j=−40 to +150˚C, V_{CC}=6 to 40V, I_O=1 to 50mA)	0.12 (I_O=50mA)	40	T_j=−40 to +150	SSOP5	FSs	YES

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*1“ComfySIL™ 功能安全类别”的详情请参阅封二。
*2 5V setting

高音质音响用电源

高音质音响用电源

Part No.	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Reference Voltage Accuracy (%)	Dropout Voltage (mV)	Noise Level (μVrms)	PSRR (dB)	Over-Current Protection	Thermal Protection	Package
MUS-IC **BD37201NUX**	0.5	2.7 to 5.5	Variable 1.0 to 4.5	±1	200	3.3	90 (f=1kHz) 55 (f=1MHz)	✓	✓	VSON008X2030

◎ MUS-IC 标记表示MUS-IC™ 系列。MUS-IC™ 是ROHM Co., Ltd.的商标或注册商标。
音频元器件所需的数值性能和音质性能均佳的罗姆高级别音频IC系列。

DDR SDRAM用线性稳压器

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

DDR SDRAM用终端稳压器

Part No.	V_{CC} Input Voltage (V)	V_{TT_IN} Termination Input Voltage (V)	V_{DDQ} Reference Input Voltage (V)	V_{TT} Output Voltage (V)	V_{TT} Voltage Precision (mV)	V_{TT} Output Current (A)	V_{REF} Output Current (mA)	Features															Package
								Enable	Soft Start	Power Good	UVLO	Output Ceramic Capacitors	Thermal Protection	DDR (VDDQ)									
														DDR1 (2.5V/2.6V)	DDR2 (1.8V)	DDR2L (1.5V)	LPDDR2 (1.2V)	DDR3 (1.5V)	DDR3L (1.35V)	DDR3U (1.25V)	LPDDR3 (1.2V)	DDR4 (1.2V)	
BD3533F	2.7 to 5.5	1.0 to 5.5	1.00 to 2.75	0.75 to 1.25	±30	±1.0	±20	✓	✓	–	✓	–	Recovery	✓	✓	–	–	–	–	–	–	–	SOP8
BD3539FVM	2.7 to 5.5	1.0 to 5.5	1.00 to 2.75	0.75 to 1.25	±15	±1.0	±25	✓	✓	–	✓	✓	Recovery	✓	✓	✓	–	✓	–	–	–	–	MSOP8
BD3539NUX																							VSON008X2030
BD35390FJ	2.7 to 5.5	1.0 to 5.5	1.00 to 2.75	0.75 to 1.25	±15	±1.0	–	✓	✓	✓	✓	✓	Recovery	✓	✓	✓	–	✓	–	–	–	–	SOP-J8

车载用 DDR SDRAM用终端稳压器

Part No.	V_{CC} Input Voltage (V)	V_{TT_IN} Termination Input Voltage (V)	V_{DDQ} Reference Input Voltage (V)	V_{TT} Output Voltage (V)	V_{TT} Voltage Precision (mV)	V_{TT} Output Current (A)	V_{REF} Output Current (mA)	Features															Package	Automotive Grade AEC-Q100
								Enable	Soft Start	Power Good	UVLO	Output Ceramic Capacitors	Thermal Protection	DDR (VDDQ)										
														DDR1 (2.5V/2.6V)	DDR2 (1.8V)	DDR2L (1.5V)	LPDDR2 (1.2V)	DDR3 (1.5V)	DDR3L (1.35V)	DDR3U (1.25V)	LPDDR3 (1.2V)	DDR4 (1.2V)		
BD35395FJ-M	2.7 to 5.5	1.0 to 5.5	1.00 to 2.75	0.500 to 1.375	±13.5	±1.0	–	✓	✓	✓	✓	✓	Recovery	✓	✓	✓	–	✓	✓	–	–	–	SOP-J8	YES

开关稳压器

内置FET的开关稳压器(降压转换器)

耐压7V以下 1A以下 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (µA)	Control Mode	Features						Package (mm)
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BD9122GUL	7	0.3	2.5 to 5.5	1 to 2	1	200	Current	—	—	✓	✓	Latch	Latch	VCSP50L2 2.5×1.1, H=0.55
Nano BD70522GUL*1	6	0.5	2.5 to 5.5	1.2 to 3.3*2	1	0.18	On-time	✓	—	✓	✓	Recovery	Recovery	VCSP50L1C 1.76×1.56, H=0.57
BD9161FVM	7	0.6	2.5 to 4.5	1.0 to 3.3	1	200	Current	—	—	✓	✓	Latch	Latch	MSOP8
BD9161FVM-LB	7	0.6	2.5 to 4.5	1.0 to 3.3	1	200	Current	—	—	✓	✓	Latch	Latch	MSOP8
BD9120HFN	7	0.8	2.7 to 4.5	1.0 to 1.5	1	200	Current	—	—	✓	✓	Latch	Latch	HSON8
BD9102FVM	7	0.8	4.0 to 5.5	1.24	1	250	Current	—	—	✓	✓	Latch	Latch	MSOP8
BD8966FVM	7	0.8	4.0 to 5.5	1.0 to 2.5	1	—	Current	—	—	✓	—	Latch	Latch	MSOP8
BD9106FVM	7	0.8	4.0 to 5.5	1.0 to 2.5	1	250	Current	—	—	✓	✓	Latch	Latch	MSOP8
BD9106FVM-LB	7	0.8	4.0 to 5.5	1.0 to 2.5	1	250	Current	—	—	✓	✓	Latch	Latch	MSOP8
BD9109FVM	7	0.8	4.5 to 5.5	3.3	1	250	Current	—	—	✓	✓	Latch	Latch	MSOP8
BD9109FVM-LB	7	0.8	4.5 to 5.5	3.3	1	250	Current	—	—	✓	✓	Latch	Latch	MSOP8
BD9104FVM	7	0.8	4.5 to 5.5	3.3	1	250	Current	—	—	✓	✓	Latch	Latch	MSOP8
BD9A100MUV	7	1	2.7 to 5.5	0.8 to (V_{IN}×0.7)	1	350	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9A101MUV-LB	7	1	2.7 to 5.5	0.8 to (V_{IN}×0.7)	1	350	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9B100MUV	7	1	2.7 to 5.5	0.8 to (V_{IN}×0.8)	2/1	35	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030
BU90008GWZ	7	1	2.3 to 5.5	1	3.6	45	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4
BU90003GWZ	7	1	2.3 to 5.5	1.2	4	45	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4
BU90007GWZ	7	1	2.3 to 5.5	1.25	4	45	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4
BU90009GWZ	7	1	2.3 to 5.5	1.3	4.2	45	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4
BU90004GWZ	7	1	2.3 to 5.5	1.8	5.4	45	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4
BU90104GWZ	7	1	2.3 to 5.5	1.8	5.4	45	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4
BU90005GWZ	7	1	2.3 to 5.5	2.5	6	45	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4
BU90006GWZ	7	1	2.3 to 5.5	3	6	55	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4
BU90002GWZ	7	1	4.0 to 5.5	3.3	6	55	On-time	—	—	✓	✓	Recovery	Recovery	UCSP35L1 1.3×0.9, H=0.4

耐压7V以下 1.2～3A 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (µA)	Control Mode	Features						Package (mm)
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BD9107FVM	7	1.2	4.0 to 5.5	1.0 to 1.8	1	250	Current	—	—	✓	✓	Latch	Latch	MSOP8
BU90028NUX	7	1.5	2.3 to 5.5	1.18	1	53	On-time	—	—	✓	✓	Recovery	Recovery	VSON008X2030
BU90023NUX	7	1.5	2.3 to 5.5	1.23	1	53	On-time	—	—	✓	✓	Recovery	Recovery	VSON008X2030
New BD9B206NF-Z	6	2	2.7 to 5.5	0.6 to 4.0	2.2	4	On-time	✓	—	✓	✓	Recovery	Recovery	VFN006V1515A
BD9B200MUV	7	2	2.7 to 5.5	0.8 to (V_{IN}×0.8)	2/1	40	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030
BD9A201FP4-LBZ	7	2	2.7 to 5.5	0.8 to (V_{IN}×0.7)	1	350	Current	✓	—	✓	—	Recovery	Recovery	TSOT23-8L
BD9110NV	7	2	4.5 to 5.5	1.0 to 2.5	1	250	Current	—	—	✓	✓	Latch	Latch	SON008V5060
BD9130NV	7	2	2.7 to 5.5	1.0 to 2.5*2	1	250	Current	—	—	✓	✓	Latch	Latch	SON008V5060
BD8961NV	7	2	4.5 to 5.5	3.3	1	—	Current	—	—	✓	—	Latch	Latch	SON008V5060
BD9111NV	7	2	4.5 to 5.5	3.3	1	250	Current	—	—	✓	✓	Latch	Latch	SON008V5060
BD8963EFJ	7	3	2.7 to 5.5	1.0 to 2.5*2	1	—	Current	—	—	✓	—	Latch	Latch	HTSOP-J8
BD9139MUV	7	3	2.7 to 5.5	0.8 to 3.3*2	1	200	Current	—	—	✓	✓	Latch	Latch	VQFN016V3030
BD9A300MUV	7	3	2.7 to 5.5	0.8 to (V_{IN}×0.7)	1	350	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9A301MUV-LB	7	3	2.7 to 5.5	0.8 to (V_{IN}×0.7)	1	350	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9B305QUZ	7	3	2.7 to 5.5	0.6 to (V_{IN}×0.8)	1	15	On-time	✓	✓	✓	✓	Recovery	Recovery	VMMP08LZ2020 2.0×2.0, H=0.4
BD9B333GWZ	7	3	2.7 to 5.5	0.6 to (V_{IN}×0.8)	1.3	50	On-time	✓	✓	✓	Deep	Recovery	Recovery	UCSP35L1 1.98×1.8, H=0.4
New BD9B306NF-Z	6	3	2.7 to 5.5	0.6 to 4.0	2.2	4	On-time	✓	—	✓	✓	Recovery	Recovery	VFN006V1515A
BD9B300MUV	7	3	2.7 to 5.5	0.8 to (V_{IN}×0.8)	2/1	35	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030
BD9B301MUV-LB	7	3	2.7 to 5.5	0.8 to (V_{IN}×0.8)	2/1	45	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030
BD9B304QWZ	7	3	2.7 to 5.5	0.8 to (V_{IN}×0.8)	2/1	40	On-time	—	—	✓	Deep	Recovery	Recovery	UMMP008AZ020 2.0×2.0, H=0.4

*1 BD70522GUL内搭载了日本碍子株式会社的小型大容量锂离子二次电池“EnerCera®”的超高效电池管理解决方案参考板“REFLVBMS001-EVK-001”。详情请参阅罗姆网站。
*2 根据输入输出电压条件，会存在限制。

Nano 标记为采用Nano Pulse Control™ 技术、Nano Energy™ 技术或Nano Cap™ 技术的产品。Nano是实现小型化和节能的罗姆创新型电源技术。
上述 Nano 标记为采用Nano Energy™ 超低功耗技术的产品。Nano Pulse Control™、Nano Energy™ 和Nano Cap™ 是ROHM Co., Ltd.的商标或注册商标。

耐压7V以下 4A以上 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (µA)	Control Mode	Features						Package
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BD9137MUV	7	4	2.7 to 5.5	0.8 to 3.3*	1	250	Current	—	—	✓	✓	Recovery	Recovery	VQFN020V4040
BD91361MUV	7	4	2.7 to 5.5	0.8 to 3.3*	1	250	Current	—	—	✓	✓	Latch	Latch	VQFN020V4040
BD9A400MUV	7	4	2.7 to 5.5	0.8 to (V_{IN}×0.7)	1	350	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9B400MUV	7	4	2.7 to 5.5	0.8 to (V_{IN}×0.8)	2/1	45	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030
New BD9B406NF-Z	6	4	2.7 to 5.5	0.6 to 4.0	2.2	4	On-time	✓	—	✓	✓	Recovery	Recovery	VFN006V1515A
BD91364BMUU	7	5	2.9 to 5.5	0.8 to (V_{IN}×0.8)	1.7	150	On-time	✓	✓	✓	✓	Latch	Recovery	VQFN20U4040M
BD9B500MUV	7	5	2.7 to 5.5	0.8 to (V_{IN}×0.8)	2/1	45	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030
BD9A600MUV	7	6	2.7 to 5.5	0.8 to (V_{IN}×0.7)	1	400	Current	✓	✓	✓	✓	Recovery	Recovery	VQFN016V3030
BD9B600MUV	7	6	2.7 to 5.5	0.8 to (V_{IN}×0.8)	2/1	45	On-time	✓	✓	✓	Deep	Recovery	Recovery	VQFN016V3030

耐压20V以下 1A以下 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (µA)	Control Mode	Features							Package
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	
BD8312HFN	15	0.8	3.5 to 14.0	1.2 to 12.0*	1.5	600	Voltage	—	—	✓	—	—	Recovery	—	HSON8
BD8313HFN	15	1	3.5 to 14.0	1.2 to 12.0*	1	600	Voltage	—	—	✓	—	—	Recovery	—	HSON8

耐压20V以下 2A～3A 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (µA)	Control Mode	Features							Package (mm)
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	
BD9141MUV	15	2	4.5 to 13.2	2.5 to 6.0*	0.5	300	Current	—	—	✓	✓	Latch	Latch	—	VQFN020V4040
BD95821MUV	15.2	2	7.5 to 15.0	0.8 to (V_{IN}×0.5) (V_{IN}×0.5)≤5.5	0.5 to 0.8	1,200	H³Reg	✓	—	✓	—	Latch	Recovery	✓	VQFN016V3030
BD9325FJ	20	2	4.75 to 18.0	0.9 to (V_{IN}×0.9)	0.38	2,100	Current	—	✓	—	—	Recovery	Recovery	—	SOP-J8
BD9325FJ-LB	20	2	4.75 to 18.0	0.9 to (V_{IN}×0.9)	0.38	2,100	Current	—	✓	—	—	Recovery	Recovery	—	SOP-J8
BD9859EFJ	15	3	5 to 14	1.0 to (V_{IN}×0.7)	0.75	2,800	Current	—	—	—	—	Recovery	Recovery	—	HTSOP-J8
BD95831MUV	15.2	3	7.5 to 15.0	0.8 to (V_{IN}×0.5) (V_{IN}×0.5)≤5.5	0.5 to 0.8	1,200	H³Reg	✓	—	✓	—	Latch	Recovery	✓	VQFN016V3030
BD9D320EFJ	20	3	4.5 to 18.0	0.765 to 7.0 (V_{IN}×0.07) to (V_{IN}×0.65)	0.7	1,000	On-time	—	✓	✓	—	Recovery	Recovery	—	HTSOP-J8
BD9D300MUV	20	3	4.0 to 17.0	0.9 to 5.25	1.25	20	On-time	✓	✓	✓	✓	Recovery	Recovery	✓	VQFN016V3030
BD9C301FJ	20	3	4.5 to 18.0	(V_{IN}×0.125) to (V_{IN}×0.7)	0.5	1,500	Current	—	—	✓	—	Latch	Recovery	—	SOP-J8
BD9C301FJ-LB	20	3	4.5 to 18.0	(V_{IN}×0.125) to (V_{IN}×0.7)	0.5	1,500	Current	—	—	✓	—	Latch	Recovery	—	SOP-J8
BD9D321EFJ	20	3	4.5 to 18.0	0.765 to 7.0 (V_{IN}×0.07) to (V_{IN}×0.65)	0.7	700	On-time	—	✓	✓	✓	Recovery	Recovery	—	HTSOP-J8
BD9D322QWZ	20	3	4.5 to 18.0	0.765 to 7.0 (V_{IN}×0.07) to (V_{IN}×0.65)	0.7	700	On-time	—	✓	✓	✓	Recovery	Recovery	—	UMMP008Z2020 2.0×2.0, H=0.4
BD9D323QWZ	20	3	4.5 to 18.0	0.765 to 7.0 (V_{IN}×0.07) to (V_{IN}×0.65)	0.7	1,000	On-time	—	✓	✓	—	Recovery	Recovery	—	UMMP008Z2020 2.0×2.0, H=0.4
BD9326EFJ	20	3	4.75 to 18.0	0.9 to (V_{IN}×0.9)	0.38	2,100	Current	—	✓	—	—	Recovery	Recovery	—	HTSOP-J8
BD9326EFJ-LB	20	3	4.75 to 18.0	0.9 to (V_{IN}×0.9)	0.38	2,100	Current	—	✓	—	—	Recovery	Recovery	—	HTSOP-J8

耐压20V以下 4A以上 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (µA)	Control Mode	Features							Package
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	
BD95841MUV	15.2	4	7.5 to 15.0	0.8 to (V_{IN}×0.5) (V_{IN}×0.5)≤5.5	0.5 to 0.8	1,200	H³Reg	✓	—	✓	—	Latch	Recovery	✓	VQFN016V3030
BD9C401EFJ	20	4	4.5 to 18.0	(V_{IN}×0.125) to (V_{IN}×0.7) (V_{IN}×0.125)≥0.8	0.5	1,500	Current	—	—	✓	—	Latch	Recovery	—	HTSOP-J8
BD9327EFJ	20	4	4.75 to 18.0	0.9 to (V_{IN}×0.9)	0.38	2,100	Current	—	✓	—	—	Recovery	Recovery	—	HTSOP-J8
BD9327EFJ-LB	20	4	4.75 to 18.0	0.9 to (V_{IN}×0.9)	0.38	2,100	Current	—	✓	—	—	Recovery	Recovery	—	HTSOP-J8
BD9C501EFJ	20	5	4.5 to 18.0	(V_{IN}×0.075) to (V_{IN}×0.7) (V_{IN}×0.075)≥0.8	0.5	1,500	Current	—	—	✓	—	Latch	Recovery	—	HTSOP-J8
BD9C601EFJ	20	6	4.5 to 18.0	(V_{IN}×0.075) to (V_{IN}×0.7) (V_{IN}×0.075)≥0.8	0.5	1,500	Current	—	—	✓	—	Latch	Recovery	—	HTSOP-J8
BD95861MUV	20	6	7.5 to 18.0	0.8 to (V_{IN}×0.5) (V_{IN}×0.5)≤5.5	0.35 to 0.80	1,200	H³Reg	✓	—	✓	—	Latch	Recovery	✓	VQFN024V4040

耐压22V以上 1A以下 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (µA)	Control Mode	Features							Package
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	
BD9G102G-LB	45	0.5	6 to 42	(V_{IN}×0.08) to (V_{IN}×0.8) (V_{IN}×0.08)≥0.75	1	500	Current	—	—	—	—	Recovery	Recovery	✓	SSOP6
BD9G101G	45	0.5	6 to 42	(V_{IN}×0.15) to (V_{IN}×0.7) (V_{IN}×0.15)≥1.0	1.5	700	Current	—	—	—	—	Recovery	Recovery	—	SSOP6
BD9227F	22	1	6 to 20	(V_{IN}×0.252) to V_{IN} (V_{IN}×0.252)≥1.0	1	400	Current	—	—	—	—	Recovery	Recovery	—	SOP8
BD9E105FP4-Z	30	1	4.5 to 28	V_{IN}×0.1V or 0.7V to V_{IN}×0.8V	0.5	55	Current	—	—	✓	✓	Recovery	Recovery	✓	TSOT23-6L
BD9E104FJ	30	1	7 to 26	(V_{IN}×0.143) to (V_{IN}×0.5) (V_{IN}×0.143)≥1.0	0.57	250	Current	—	—	✓	✓	Recovery	Recovery	✓	SOP-J8
BD9E101FJ-LB	40	1	7 to 36	(V_{IN}×0.0855) to (V_{IN}×0.7) (V_{IN}×0.0855)≥1.0	0.57	1,500	Current	—	—	✓	—	Recovery	Recovery	✓	SOP-J8
BD9E100FJ-LB	40	1	7 to 36	(V_{IN}×0.15) to (V_{IN}×0.7) (V_{IN}×0.15)≥1.0	1	1,500	Current	—	—	✓	—	Recovery	Recovery	✓	SOP-J8
Nano BD9V101MUF-LB	70	1	16 to 60	0.8 to 5.5	1.9 to 2.3	2,500	Current	✓	—	✓	—	Recovery	Recovery	✓	VQFN24FV4040

*根据输入输出电压条件，会存在限制。

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内置FET的开关稳压器(降压转换器)

耐压22V以上 1.2A～3A 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features							Package
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	
BD9E151ANUX	30	1.2	6 to 28	1.0 to (V_{IN}×0.7) or (V_{IN}−5.0)*2	0.6	800	Current	—	✓	—	—	Recovery	Recovery	✓	VSON008X2030
BD9701CP-V5	36	1.5	8 to 35	1.0 to (V_{IN}−3.0)	0.1	4,000	Voltage	—	—	—	—	Recovery	Recovery	—	TO220CP-V5
BD9701FP	36	1.5	8 to 35	1.0 to (V_{IN}−3.0)	0.1	4,000	Voltage	—	—	—	—	Recovery	Recovery	—	TO252-5
BD9703CP-V5	36	1.5	8 to 35	1.0 to (V_{IN}−3.0)	0.3	5,000	Voltage	—	—	—	—	Recovery	Recovery	—	TO220CP-V5
BD9703FP	36	1.5	8 to 35	1.0 to (V_{IN}−3.0)	0.3	5,000	Voltage	—	—	—	—	Recovery	Recovery	—	TO252-5
BD9870FPS	36	1.5	8 to 35	1.0 to 0.8×(V_{IN}-I_O×RON)	0.9	5,000	Voltage	—	—	—	—	Recovery	Recovery	—	TO252S-5
BD9873CP-V5	36	1.5	8 to 35	1.0 to 0.8×(V_{IN}-I_O×RON)	0.11	5,000	Voltage	—	—	—	—	Recovery	Recovery	—	TO220CP-V5
BD9G201UEFJ-LB	45	1.5	4.5 to 42.0	0.8 to V_{IN}*1	0.3	1,200	Current	—	—	—	—	Recovery	Recovery	—	HTSOP-J8ES
BD9E200FP4-Z	30	2	4.5 to 26.0	V_{IN}×0.1 or 0.7V to V_{IN}×0.8V	0.5	95	Current	—	—	✓	✓	Recovery	Recovery	✓	TSOT23-6L
BD9E201FP4-Z	30	2	4.5 to 28.0	V_{IN}×0.1 or 0.7V to V_{IN}×0.8V	0.35	510	Current	—	—	✓	—	Recovery	Recovery	✓	TSOT23-6L
BD9778HFP	36	2	7 to 35	(V_{IN}×0.06) to V_{IN} (V_{IN}×0.06)≥1.0	0.05 to 0.50	3,000	Voltage	—	—	—	—	Recovery	Recovery	—	HRP7
New BD9E301UEFJ-LB	40	2.5	7 to 36	(V_{IN}×0.0855) to (V_{IN}×0.7) (V_{IN}×0.0855)≥1.0	0.57	1,500	Current	—	—	✓	—	Recovery	Recovery	✓	HTSOP-J8
New BD9E300UEFJ-LB	40	2.5	7 to 36	(V_{IN}×0.15) to (V_{IN}×0.7) (V_{IN}×0.15)≥1.0	1	1,500	Current	—	—	✓	—	Recovery	Recovery	✓	HTSOP-J8
BD9E302EFJ	30	3	7 to 28	(V_{IN}×0.11) to (V_{IN}×0.7) (V_{IN}×0.11)≥1.0	0.55	290	Current	—	—	✓	✓	Recovery	Recovery	✓	HTSOP-J8
BD9702CP-V5	36	3	8 to 35	1.0 to (V_{IN}−3.0)	0.11	4,000	Voltage	—	—	—	—	Recovery	Recovery	—	TO220CP-V5
BD9874CP-V5	36	3	8 to 35	1.0 to 0.8×(V_{IN}-I_O×RON)	0.11	5,000	Voltage	—	—	—	—	Recovery	Recovery	—	TO220CP-V5
BD9E304FP4-LBZ	39	3	4.5 to 36	V_{IN}×0.1V or 0.7V to V_{IN}×0.8V	0.3	45	Current	—	✓	✓	✓	Recovery	Recovery	✓	TSOT23-8L
New BD9E303UEFJ-LB	40	3	7 to 36	(V_{IN}×0.06) to (V_{IN}×0.8) (V_{IN}×0.06)≥1.0	0.3	2,200	Current	—	—	✓	—	Recovery	Recovery	✓	HTSOP-J8
BD9G341AEFJ	80	3	12 to 76	1.0 to (V_{IN}×0.9)*1	0.05 to 0.75	1,500	Current	—	—	—	—	Recovery	Recovery	✓	HTSOP-J8
BD9G341AEFJ-LB	80	3	12 to 76	1.0 to (V_{IN}×0.9)*1	0.05 to 0.75	1,500	Current	—	—	—	—	Recovery	Recovery	✓	HTSOP-J8

耐压22V以上 4A以上 单输出 降压转换器

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features							Package
								Power Good	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	
BD95514MUV	30	4	4.5 to 28.0	0.7 to 5.0	0.2 to 1.0	1,300	H³Reg	✓	✓	✓	✓	Latch	Recovery	✓	VQFN032V5050
Nano BD9F500QUZ	39	3 or 5	4.5 to 36.0	0.6 to 14.0	0.6, 1.0, 2.2	20	On-time	✓	✓	✓	✓	Recovery	Recovery	✓	VMMP16LZ3030
BD9G500UEFJ-LA	80	5	7 to 76	1.0 to (0.97×V_{IN})*1	0.1 to 0.65	750	Current	—	—	—	—	Recovery	Recovery	✓	HTSOP-J8
BD9F800MUX	30	8	4.5 to 28.0	0.765 to 13.5*1	0.3, 0.6	850	On-time	✓	—	✓	—	Recovery	Recovery	—	VQFN11X3535A

双输出 降压型

Part No.	Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features					Package
								Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	Over-Voltage Protection	
BD9152MUV	7	I_O1: 1.5 I_O2: 1.5	4.5 to 5.5	V_O1: 3.3 V_O2: 0.8 to 2.5	1	500	Current	✓	✓	Latch	Latch	—	VQFN020V4040
BD93291EFJ	30	I_O1: 2.5 I_O2: 1.5	8 to 26	V_O1: 5.0 V_O2: 0.8 to 4.0	1.5 to 2.5	600	H³Reg	✓	✓	Recovery	Recovery	—	HTSOP-J8

*1 根据输入输出电压条件，会存在限制。
*2 最大输出电压限制为(VIN×0.7)、(VIN-5.0)中数值较小的一方。

Nano 标记为采用Nano Pulse Control™ 技术、Nano Energy™ 技术或Nano Cap™ 技术的产品。Nano是实现小型化和节能的罗姆创新型电源技术。
上述 Nano 标记为采用Nano Energy™ 超低功耗技术的产品。Nano Pulse Control™、Nano Energy™ 和Nano Cap™ 是ROHM Co., Ltd.的商标或注册商标。

内置FET的开关稳压器(升压/升降压转换器)

单输出 升压/升降压转换器

Part No.	Input Voltage Maximum Rating (V)	Switch Current Limit (mA)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features								Package
								Boost	Buck-Boost	SEPIC	Inverting	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BU33DV5G	6	10	1.75 to 4.50	3.3	0.1	250	Current	✓	—	—	—	✓	—	Recovery	✓	SSOP5
BU33DV7NUX	7	300	1.8 to 5.5	3.3	0.6	25	Current	✓	—	—	—	✓	✓	Recovery	✓	VSON010V3030
BU34DV7NUX	7	300	1.8 to 5.5	3.4	0.6	25	Current	✓	—	—	—	✓	✓	Recovery	✓	VSON010V3030
BU33UV7NUX	6.5	500	0.6 to 4.5	3.3	0.8	7	Current	✓	—	—	—	✓	✓	Recovery	✓	VSON010X3020
BD8152FVM	7	1,400	2.5 to 5.5	V_{IN} to 14	0.6/1.2	1,200	Current	✓	✓	✓	—	—	—	Recovery	✓	MSOP8
BD8158FVM	7	1,400	2.1 to 4.0	V_{IN} to 14	0.6/1.2	1,200	Current	✓	✓	✓	—	—	—	Recovery	✓	MSOP8
BD83070GWL	6	2,000	2.0 to 5.5	2.5 or 3.3	1.5	2.8	Current	—	✓	—	—	✓	✓	Recovery	✓	UCSP50L1C
BD8306MUV	7	2,000	1.8 to 5.5	1.8 to 5.2	0.3 to 2.0	500	Voltage	✓	✓	—	—	✓	—	Latch	✓	VQFN016V3030
BD8311NUV	14	2,500	3.5 to 11.0	4 to 11	1.2	600	Voltage	✓	—	—	—	—	—	Latch	✓	VSON010V3030
BD8314NUV	14	2,500	3 to 12	4 to 12	1.2	600	Voltage	✓	—	—	—	—	—	Latch	✓	VSON010V3030

双输出 升压/升降压转换器

Part No.	Input Voltage Maximum Rating (V)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features								Package
							Boost	Buck-Boost	SEPIC	Inverting	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BD8317GWL	7	2.5 to 5.5	V_O1: −9.0 to −1.0 V_O2: V_{IN} to 18	0.8	500	Current	✓	—	—	✓	—	—	Latch	✓	UCSP50L1
BD8316GWL	7	2.5 to 5.5	V_O1: −9.0 to −1.0 V_O2: V_{IN} to 18	1.6	500	Current	✓	—	—	✓	—	—	Latch	✓	UCSP50L1
BD83854GWL	7	2.5 to 4.5	±5.4	1.0/0.5	2,500	Current	✓	—	—	✓	✓	—	Latch	✓	UCSP50L1C
BD83854MUV	7	2.5 to 4.5	±5.4	1.0/0.5	2,500	Current	✓	—	—	✓	✓	—	Latch	✓	VQFN20PV3535

外置FET的开关稳压器(降压控制器)

单输出 降压控制器

Part No.	Input Voltage Maximum Rating (V)	Input Voltage (V)	Supply Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features							Package
								Power Good	Externally Synchronizable	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BD9305AFVM	20	4.2 to 18.0	—	1.25 to V_{IN}*	0.1 to 0.8	1,500	Voltage	—	—	—	—	—	SCP Latch	Recovery	MSOP8
BD63536FJ	32	3 to 30	—	1.25 to V_{IN}*	0.01 to 0.3	2,000	Voltage	—	—	—	—	—	Recovery	Recovery	SOP-J8
BD9845FV	36	3.6 to 35.0	—	1.0 to V_{IN}*	0.1 to 1.5	2,400	Voltage	—	—	✓	—	—	Recovery	Recovery	SSOP-B14
BD9611MUV	60	10 to 56	—	(V_{IN}×0.02) to (V_{IN}×0.97) (V_{IN}×0.02)≥0.8*	0.05 to 0.50	2,000	Voltage	—	✓	✓	✓	—	Recovery	Recovery	VQFN020V4040

*根据输入输出电压条件，会存在限制。

双输出 降压控制器

Part No.	Input Voltage Maximum Rating (V)	Input Voltage (V)	Supply Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features							Package
								Power Good	Externally Synchronizable	Adjustable Soft Start	Synchronous Rectifier	Light-Load Efficiency	Over-Current Protection	Thermal Protection	
BD95602MUV-LB	30	5.5 to 28.0	—	1.0 to 5.5	0.15 to 0.50	250	H³Reg	✓	—	✓	✓	✓	Latch	Recovery	VQFN032V5050
BD9848FV	36	3.6 to 35.0	—	1.0 to V_{IN}*	0.1 to 1.5	3,000	Voltage	—	—	✓	—	—	Recovery	Recovery	SSOP-B20

*根据输入输出电压条件，会存在限制。

外置FET的开关稳压器(升压/升降压控制器)

单输出 升压/升降压控制器

Part No.	Input Voltage Maximum Rating (V)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features									Package
							Boost	Buck-Boost	Inverting	Buck	Externally Synchronizable	Adjustable Soft Start	Synchronous Rectifier	Over-Current Protection	Thermal Protection	
BD8303MUV	15	2.7 to 14.0	1 to 12	0.2 to 1.0	650	Voltage	—	✓	—	—	—	—	✓	Latch	Recovery	VQFN016V3030
BD9306AFVM	20	4.2 to 18.0	V_{IN} to (V_{IN}/0.3)	0.1 to 0.8	1,500	Voltage	✓	—	—	—	—	—	—	Latch	Recovery	MSOP8
BD9615MUV-LB	62	3.5 to 60.0	V_{IN} to (V_{IN}/0.2)	0.1 to 2.5	2,000	Voltage	✓	—	—	—	✓	✓	—	Recovery	Recovery	VQFN16KV3030

双输出 升压/升降压控制器

Part No.	Input Voltage Maximum Rating (V)	Input Voltage (V)	Output Voltage (V)	Switching Frequency (MHz)	Circuit Current (μA)	Control Mode	Features									Package
							Boost	Buck-Boost	Inverting	Buck	Externally Synchronizable	Adjustable Soft Start	Synchronous Rectifier	Over-Current Protection	Thermal Protection	
BD9851EFV	20	4 to 18	1 or more	0.01 to 0.3	2,500	Voltage	✓	—	✓	✓	—	✓	—	Latch	Recovery	HTSSOP-B20
BA9743AFV	36	3.6 to 35.0	2.505 or more	0.01 to 0.8	1,600	Voltage	✓	—	✓	✓	—	✓	—	Latch	Recovery	SSOP-B16
BA9744FV	36	2.5 to 35.0	1.222 or more	0.01 to 0.8	3,900	Voltage	✓	—	✓	✓	—	✓	—	Latch	Recovery	SSOP-B16
BA9741F	36	3.6 to 35.0	2.5 or more	0.01 to 0.8	1,600	Voltage	✓	—	✓	✓	—	✓	—	Latch	Recovery	SOP16
BA9741FS	36	3.6 to 35.0	2.5 or more	0.01 to 0.8	1,600	Voltage	✓	—	✓	✓	—	✓	—	Latch	Recovery	SSOP-A16

支持车载的开关稳压器

单输出 初级 FET内置 降压转换器

	Part No.	Output FET		Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Circuit Current (μA)	Switching Frequency (MHz)	Control Mode	Features							Orerating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		Upper (Typ)	Bottom (Typ)									Power Good	Sync	Adjustable Soft Start	Synchronous Rectification	Light-Load Efficiency	Over-Voltage Protection	Spread Spectrum				
Nano	**BD9V100MUF-C**	600mΩ	400mΩ	70	1	16 to 60	Adj. (0.8 to 5.5)	±2.0	2,500	1.9 to 2.3	Current	✓	—	—	✓	—	✓	—	−40 to +125	VQFN24FV4040	FSs	YES
Nano	**BD9P105EFV-C**	210mΩ	140mΩ	42	1	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	15	2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	**BD9P105MUF-C**	200mΩ	130mΩ	42	1	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	15	2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	VQFN20FV4040	FSs	YES
Nano	**BD9P108MUF-C**	200mΩ	130mΩ	42	1	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	15	2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	VQFN24FV4040	FSs	YES
Nano	**BD9P135EFV-C**	210mΩ	140mΩ	42	1	3.5 to 40.0	3.3	±1.75	15	2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	**BD9P135MUF-C**	200mΩ	130mΩ	42	1	3.5 to 40.0	3.3	±1.75	15	2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	VQFN20FV4040	FSs	YES
Nano	**BD9P155EFV-C**	210mΩ	140mΩ	42	1	3.5 to 40.0	5	±1.75	15	2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	**BD9P155MUF-C**	200mΩ	130mΩ	42	1	3.5 to 40.0	5	±1.75	15	2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	VQFN20FV4040	FSs	YES
	BD90610UEFJ-C	Pch 160mΩ	—	42	1.25	3.5 to 36.0	Adj. (0.8 to V_{IN})	±2.0	2,200	0.05 to 0.6	Current	—	✓	—	—	—	—	—	−40 to +125	HTSOP-J8	FSs	YES
New	**BD9G201UEFJ-M**	140mΩ	—	45	1.5	4.5 to 42.0	Adj. (0.8 to V_{IN})	±2.0	1,200	0.3	Current	—	✓	—	—	—	—	—	−40 to +105	HTSOP-J8ES	FSs	YES
Nano	**BD8P250MUF-C**	110mΩ	110mΩ	42	2	3.5 to 36.0	5.0	±2.0	8	2.2	Current	✓	—	—	✓	✓	✓	✓	−40 to +125	VQFN24FV4040	FSs	YES
Nano	**BD9P205EFV-C**	150mΩ	100mΩ	42	2	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	15	2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	**BD9P205MUF-C**	140mΩ	90mΩ	42	2	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	15	2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	VQFN20FV4040	FSs	YES
Nano	**BD9P208MUF-C**	140mΩ	90mΩ	42	2	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	15	2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	VQFN24FV4040	FSs	YES
Nano	**BD9P235EFV-C**	150mΩ	100mΩ	42	2	3.5 to 40.0	3.3	±1.75	15	2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	**BD9P235MUF-C**	140mΩ	90mΩ	42	2	3.5 to 40.0	3.3	±1.75	15	2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	VQFN20FV4040	FSs	YES
Nano	**BD9P255EFV-C**	150mΩ	100mΩ	42	2	3.5 to 40.0	5	±1.75	15	2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	**BD9P255MUF-C**	140mΩ	90mΩ	42	2	3.5 to 40.0	5	±1.75	15	2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	VQFN20FV4040	FSs	YES
Nano	**BD9P206EFV-C**	150mΩ	100mΩ	42	2	3.5 to 40.0	0.8 to 8.5	±1.75	15	0.44	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	**BD9P236EFV-C**	150mΩ	100mΩ	42	2	3.5 to 40.0	3.3	±1.75	15	0.44	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	**BD9P256EFV-C**	150mΩ	100mΩ	42	2	3.5 to 40.0	5.0	±1.75	15	0.44	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	**BD9P233MUF-C**	Pch 190mΩ	120mΩ	42	2	3 to 36	3.3	±2.0	26	0.2 to 2.4	Current	✓	✓	✓	✓	✓	✓	✓	−40 to +125	VQFN32FAV050	FSs	YES
	BD99010EFV-M	Pch 170mΩ	130mΩ	42	2	3.5 to 36.0	3.3	±2.0	22	0.2 to 0.5	Current	—	—	—	✓	✓	✓	—	−40 to +105	HTSSOP-B24	FSs	YES
	BD99011EFV-M	Pch 170mΩ	130mΩ	42	2	3.5 to 36.0	5.0	±2.0	22	0.2 to 0.5	Current	—	—	—	✓	✓	✓	—	−40 to +105	HTSSOP-B24	FSs	YES
	BD9060F-C	Pch 300mΩ	—	42	2	5 to 35	Adj. (0.8 to V_{IN})	±2.0	3,700	0.05 to 0.5	Voltage	—	✓	—	—	—	—	—	−40 to +125	SOP8	FSs	YES
	BD9060HFP-C	Pch 300mΩ	—	42	2	5 to 35	Adj. (0.8 to V_{IN})	±2.0	3,700	0.05 to 0.5	Voltage	—	✓	—	—	—	—	—	−40 to +125	HRP7	FSs	YES
	BD90620UEFJ-C	Pch 160mΩ	—	42	2.5	3.5 to 36.0	Adj. (0.8 to V_{IN})	±2.0	2,200	0.05 to 0.6	Current	—	✓	—	—	—	—	—	−40 to +125	HTSOP-J8	FSs	YES
	BD90620HFP-C	Pch 160mΩ	—	42	2.5	3.5 to 36.0	Adj. (0.8 to V_{IN})	±2.0	2,200	0.05 to 0.6	Current	—	✓	—	—	—	—	—	−40 to +125	HRP7	FSs	YES
Nano	**BD9P305EFV-C**	135mΩ	90mΩ	42	3	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	15	0.44/2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	HTSSOP-B20	FSs	YES
Nano	**BD9P308MUF-C**	125mΩ	80mΩ	42	3	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	15	0.44/2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	VQFN24FV4040	FSs	YES
	BD9G401UEFJ-M	140mΩ	—	45	3.5	4.5 to 42.0	Adj. (0.8 to V_{IN})	±2.0	1,200	0.3	Current	—	✓	—	—	—	—	—	−40 to +105	HTSOP-J8ES	FSs	YES
	BD90640UEFJ-C	Pch 160mΩ	—	42	4	3.5 to 36.0	Adj. (0.8 to V_{IN})	±2.0	2,200	0.05 to 0.6	Current	—	✓	—	—	—	—	—	−40 to +125	HTSOP-J8	FSs	YES
	BD90640HFP-C	Pch 160mΩ	—	42	4	3.5 to 36.0	Adj. (0.8 to V_{IN})	±2.0	2,200	0.05 to 0.6	Current	—	✓	—	—	—	—	—	−40 to +125	HRP7	FSs	YES
Nano	**BD9P608MFF-C**	38mΩ	20mΩ	42	6	3.5 to 40.0	Adj. (0.8 to 8.5)	±1.75	20	0.44/2.2	Current	✓	✓	—	✓	✓	✓	✓	−40 to +125	VFN20FV4535	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。

*1 "ComfySIL™ 功能安全类别"的详情请参阅封二。

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支持车载的开关稳压器

单输出 次级 FET内置 降压转换器

Part No.	Output FET		Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Circuit Current (μA)	Switching Frequency (MHz)	Control Mode	QuiCur™ technology	Features							Orerating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	Upper (Typ)	Bottom (Typ)										Power Good	Sync	Adjustable Soft Start	Synchronous Rectification	Light-Load Efficiency	Over-Voltage Protection	Output Discharge				
BD9S000NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	0.6	2.7 to 5.5	Adj. (0.8 to V_{IN})	±1.5	350	2.2	Current	–	✓	–	✓	✓	–	✓	✓	–40 to +125	VSON008X2020	FSs	YES
BD9SD11NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	0.6	2.7 to 5.5	1.15	±1.5	400	2.2	Current	–	✓	–	✓	✓	–	✓	–	–40 to +125	VSON008X2020	FSs	YES
BD9S012NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	0.6	2.7 to 5.5	1.1	±1.5	350	2.2	Current	–	✓	–	✓	✓	–	✓	✓	–40 to +125	VSON008X2020	FSs	YES
BD9S100NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	1	2.7 to 5.5	Adj. (0.8 to V_{IN})	±1.5	350	2.2	Current	–	✓	–	✓	✓	–	✓	✓	–40 to +125	VSON008X2020	FSs	YES
BD9S110NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	1	2.7 to 5.5	1.2	±1.5	400	2.2	Current	–	✓	–	✓	✓	–	✓	✓	–40 to +125	VSON008X2020	FSs	YES
BD9S111NUX-C	Pch (270mΩ)	Nch (180mΩ)	7	1	2.7 to 5.5	1.8	±1.5	400	2.2	Current	–	✓	–	✓	✓	–	✓	✓	–40 to +125	VSON008X2020	FSs	YES
BD9S109NUX-C	Pch (150mΩ)	Nch (95mΩ)	7	1	2.7 to 5.5	Adj. (0.8 to V_{IN})	±1.5	400	2.2	Current	–	✓	–	✓	✓	–	✓	✓	–40 to +125	VSON008X2020	FSs	YES
BD9S209NUX-C	Pch (150mΩ)	Nch (95mΩ)	7	2	2.7 to 5.5	Adj. (0.8 to V_{IN})	±1.5	400	2.2	Current	–	✓	–	✓	✓	–	✓	✓	–40 to +125	VSON008X2020	FSs	YES
BD9S201NUX-C	Pch (150mΩ)	Nch (95mΩ)	7	2	2.7 to 5.5	Adj. (0.8 to V_{IN})	±1.5	400	2.2	Current	–	✓	–	✓	✓	–	✓	✓	–40 to +125	VSON008X2020	FSs	YES
BD9S231NUX-C	Pch (150mΩ)	Nch (95mΩ)	7	2	2.7 to 5.5	Adj. (0.8 to V_{IN})	±1.5	400	2.2	Current	–	✓	–	✓	✓	–	✓	–	–40 to +125	VSON008X2020	FSs	YES
BD9S200MUF-C	Nch (35mΩ)	Nch (35mΩ)	7	2	2.7 to 5.5	Adj. (0.8 to V_{IN}×0.8)	±1.5	650	2.2	Current	–	✓	✓	✓	✓	✓	✓	–	–40 to +125	VQFN16FV3030	FSs	YES
BD9S300MUF-C	Nch (35mΩ)	Nch (35mΩ)	7	3	2.7 to 5.5	Adj. (0.8 to V_{IN}×0.8)	±1.5	650	2.2	Current	–	✓	✓	✓	✓	✓	✓	–	–40 to +125	VQFN16FV3030	FSs	YES
BD9S400MUF-C	Nch (35mΩ)	Nch (35mΩ)	7	4	2.7 to 5.5	Adj. (0.8 to V_{IN}×0.8)	±1.5	650	2.2	Current	–	✓	✓	✓	✓	✓	✓	–	–40 to +125	VQFN16FV3030	FSs	YES
Nano **BD9S402MUF-C**	Pch (60mΩ)	Nch (35mΩ)	7	4	2.7 to 5.5	Adj. (0.6 to V_{IN}×0.75)	±1.0	1,800	2.2	Current	✓	✓	–	✓	✓	–	✓	✓	–40 to +125	VQFN16FV3030	FSs	YES

单输出 初级 FET内置 升降压转换器(Quick Buck Booster™)

Part No.	Output FET		Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Circuit Current (μA)	Switching Frequency (MHz)	Control Mode	Features							Orerating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	Upper (Typ)	Bottom (Typ)									Power Good	Sync	Adjustable Soft Start	Synchronous Rectification	Light-Load Efficiency	Over-Voltage Protection	Spread Spectrum				
BD8P250MUF-C + BD90302NUF-C	Nch (110mΩ)	Nch (110mΩ)	42	0.8	2.7 to 36	5.0	±2.0	8	2.2	Current	✓	–	–	✓	✓	✓	✓	–40 to +125	VQFN24FV4040	FSs	YES
	Pch (55mΩ)	Nch (65mΩ)	7					65											VSON10FV3030		YES

双输出 初级 FET外置 降压控制器

Part No.	Output FET		Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Circuit Current (μA)	Switching Frequency (MHz)	Control Mode	Features							Orerating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	Upper (Typ)	Bottom (Typ)									Power Good	Sync	Adjustable Soft Start	Synchronous Rectification	Light-Load Efficiency	Over-Voltage Protection	Spread Spectrum				
BD9015KV-M	Ext. Nch	Ext. Nch	35	–	3.9 to 30.0	Adj. (0.8 to 10)	±1.5	4,000	0.25 to 0.55	Current	✓	✓	✓	✓	–	✓*2	–	–40 to +105	VQFP48C	FSs	YES
BD9016KV-M	Ext. Nch	Ext. Nch	35	–	3.9 to 30.0	Adj. (0.8 to 10)	±1.5	4,000	0.25 to 0.55	Current	✓	✓	✓	✓	–	✓*3	–	–40 to +105	VQFP48C	FSs	YES

单输出 初级 FET外置 升降压控制器

Part No.	Output FET		Input Voltage Maximum Rating (V)	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Circuit Current (μA)	Switching Frequency (MHz)	Control Mode	Features							Orerating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	Upper (Typ)	Bottom (Typ)									Power Good	Sync	Adjustable Soft Start	Synchronous Rectification	Light-Load Efficiency	Over-Voltage Protection	Spread Spectrum				
BD9035AEFV-C	Ext. Pch	Ext. Nch	40	–	3.8 to 30.0	Adj.	±1.5	7,000	0.1 to 0.6	Voltage	✓	✓	✓	–	–	✓	–	–40 to +125	HTSSOP-B24	FSs	YES

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◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
◎QuiCur™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。
*2 过电压检测时下侧FET OFF
*3 过电压检测时下侧FET ON

Nano 标记为采用Nano Pulse Control™ 技术、Nano Energy™ 技术或Nano Cap™ 技术的产品。Nano是实现小型化和节能的罗姆创新型电源技术。
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复合电源IC(PMIC)

车载音响用系统电源

汽车音响用系统电源IC

Part No.	Supply Voltage (V)	Function						Input I/F	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
				Reference Voltage (V)	Output Current (A)	Protection Circuit					
						Over-Current	Temperature				
BD49101AEFS-M*2/ BD49101ARFS-M*3	5.5 to 25.0	Buck DC-DC1	Controller	0.8	–	Current Limit with Short Current Protection Circuit	✓	I²C	HTSSOP-A44 (EXP-PAD down HTSSOP-A44 package) HTSSOP-A44R (EXP-PAD up HTSSOP-A44R package)	FSs/FSs	YES
		Buck DC-DC2	Low Power Standby REG	0.8	1.0						
		REG1	Secondly	0.6	0.5	Foldback					
		REG2	–	0.8	0.1						
		REG3	Secondly	0.8	0.3						
		REG4	Secondly, Voltage Calibration	0.8	1.5 (Variable)						
		REG5	–	0.8	0.1						
		High Side Switch	–	–	0.5						
		+B Detection Circuit	Over/Under Current Detection	–	–	–					

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。
*2 BD49101AEFS-M: 背面散热型HTSSOP-A44封装
*3 BD49101ARFS-M: 表面散热型HTSSOP-A44R封装

面板用系统电源

面对中小型面板的多通道系统电源IC

Part No.	Supply Voltage (V)	Operating Temperature (℃)	Operating Frequency (MHz)	Output for Source Voltage (V)	Output for Logic Voltage (V)	Output for Gate Voltage (V)	Start up Sequence Circuit	V COM (ch)	Package
BD8163EFV	2.1 to 6.0	–40 to +125	1.1	up to 18.0	2.5	Variable	✓	–	HTSSOP-B24
BD9862MUV	1.8 to 5.5	–40 to +85	0.7 to 1.4	up to 15.0	–	Variable	✓	–	VQFN024V4040

面向大型面板的多通道系统电源IC

Part No.	Supply Voltage (V)	Operating Temperature (℃)	Operating Frequency (MHz)	Output for Source Voltage (V)	Output for Logic Voltage 1	Output for Logic Voltage 2	Output for Gate Voltage	Start up Sequence Circuit	V COM (ch)	Package
BM81110MUW	8.6 to 14.7	–40 to +85	0.75/1.0	up to 19.8	Variable	Variable	Variable	✓	–	VQFN40W6060A

车载面板用系统电源IC

Part No.	Supply Voltage (V)	Operating Temperature (℃)	Operating Frequency (MHz)	Output for Source Voltage1 (V)	Output for Source Voltage2 (V)	Output for Logic Voltage (V)	Output for Gate Voltage (V)	Start up Sequence Circuit	V COM (ch)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD81842MUV-M	2.0 to 5.5	–40 to +105	2.1	up to 18.0	–	–	Variable	✓	1	VQFN24SV4040	FSs	YES
BM81810MUV-M	2.6 to 5.5	–40 to +105	0.525/1.05/2.1	5.0 to 17.0 0.1V step	–	0.9 to 3.4 50mV step	8.0 to 35.0 0.2V step/ –14.0 to –4.0 0.1V step	✓	1	VQFN32SV5050	FSs	YES
BM81810MUF-M*2										VQFN32FBV050	FSs	
BD81870EFV-M	2.5 to 5.5	–40 to +105	2.1	up to 18.0	V_{DD}–13.0 to –1.0	–	–	✓	–	HTSSOP-B20	FSs	YES
New **BD81870MUF-M**										VQFN20FV3535	FSs	YES

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*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。
*2 BM81810MUF-M与BM81810MUV-M的区别在于BM81810MUF-M支持Wettable flank。

灰度等级电压生成IC

内置DAC的高精度灰度电压生成IC

Part No.	Supply Voltage (V)		Operating Temperature (˚C)	Clock Frequency (MHz)	DAC (bit)	Serial I/F	Auto Data Read	V COM (ch)	Buffer for Gamma (ch)	Package
	Gamma Collection Input	Logic								
BD8149MUV	10 to 18	2.1 to 3.6	−25 to +85	0.4	10	I^2C BUS	Built-in	–	12	VQFN032V5050

车载面板用内置DAC的高精度灰度电压生成IC

Part No.	Supply Voltage (V)		Operating Temperature (˚C)	Clock Frequency (MHz)	DAC (bit)	Serial I/F	Auto Data Read	V COM (ch)	Buffer for Gamma (ch)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	Gamma Collection Input	Logic										
BD81849MUV-C	10 to 18	2.1 to 3.6	−40 to +105	0.4	10	I^2C BUS	Built-in	–	12	VQFN32SV5050	FSs	YES

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*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。

数码相机/数码摄像机用系统电源

数码摄像机/数码单反相机用系统开关稳压器IC

Part No.	ch	Operating Frequency (MHz)	Supply Voltage (V)	Reference Voltage (V)	Reference Voltage Precision (%)	Step up (ch)	Step Down (ch)	Buck-Boost (ch)	Inverting/ Stepdown (ch)	Built-in FET (ch)	Synchronous Rectifier (ch)	Load Switch (ch)	Package (mm)
BD9865MWV	4	0.6 to 1.5	4 to 14	1.0	±1.0	–	2	1	1	4	3	–	UQFN040V5050
				0.8	±1.25								
BD9866GUL	4	0.6 to 1.5	4 to 14	0.6	±1.66	–	3	1	–	4	4	–	VCSP50L3 3.75×3.75, H=Max 0.55
				0.8	±1.25								

闪光灯充电控制IC

Part No.	Supply Voltage (V_{CC}) (V)	Peak Current (A)	Full Charge Detection Voltage (V)	100nsec pulse AC Full Charge Detection Voltage	Full Terminal Output	Power Transistor Saturation Voltage I_{SW}=1A (V)	IGBT OUT N (mA)	IGBT OUT P (mA)	Package
BD4234NUX	2.5 to 5.5	0.5 to 2.0	1±1.1%	1.0V −1.1% to +1.6%	Nch Open drain	0.4	30	140	VSON010X3020

车载系统电源

2ch 车载系统电源

Part No.	Supply Voltage (V)	Operating Frequency (kHz)	Operating Temperature (˚C)	Sequence	Output Voltage Precision (%)	Output		Function					Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
						ch	V_{OUT}/Max I_{OUT}	Over-Current Protection	TSD	Under/Over Voltage Detection	Reset	WDT			
BD39012EFV-C	4 to 36 (Rating 45V)	200 to 600	−40 to +125	External Control EN1: DC-DC EN2: LDO	±2	1ch (DC-DC)	Synchronous Buck DC-DC Converter (V_{OUT} variable, 1A)	✓	✓	✓	–	WINDOW WDT	HTSSOP-B24	FSs	YES
						2ch (LDO)	LDO (5V, 0.4A)				✓				

3ch 车载系统电源(ADAS)

Part No.	Supply Voltage (V)	Switching Frequency (MHz)	Operating Temperature (˚C)	Output Voltage Precision (%)	DC-DC Output				Function			Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
					Item	DC-DC1 Buck	DC-DC2 Buck	DC-DC3 Buck	Reset	Power Good	External LDO CTRL				
BD86852MUF-C	4 to 18	2.2	−40 to +125	2	Output Voltege (V)	3.3 or 3.9	1.1 or 1.2	1.8	✓	✓	✓	OVP OCP UVLO TSD	VQFN24FV4040	FSs	YES
					Output Current (A)	2	1	1							

4ch 车载系统电源(ADAS)

Part No.	Supply Voltage (V)	Switching Frequency (MHz)	Operating Temperature (˚C)	Output Voltage Precision (%)	DC-DC Output					Reset	WDT	Protection Circuit	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
					Item	DC-DC1 Buck	DC-DC2 Buck	DC-DC3 Buck	DC-DC4 Boost						
BD39031MUF-C	4 to 28	2.2	−40 to +125	±1.5 (DC-DC4 ±2.0)	Output Voltege (V)	3.3	1.2	0.8 to 2.5	5	✓	WINDOW WDT	OVP, OCP, SCP, TSD, T-Warning	VQFN40FV6060	FSs	YES
					Output Current (A)	Ext.FET	2.5	2.5	0.5						

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*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。

通用车载系统电源(支持Renesas [R-Car] SoC系列)

Part No.	Supply Voltage (V)	Switching Frequency (MHz)	Output Voltage Precision (%)	Item	DC-DC Output				LDO	DC (SW)	Reset	WDT	Monitoring Function	Protection Circuit	Operating Temperature (˚C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
					DC-DC1 Boost	DC-DC2 Buck	DC-DC3 Buck	DC-DC4 Buck										
BD9573MUF-M	3 to 3.6	2.25	±1.8	Output Voltage (V)	5	1.8	1.35 or 1.5	1.03	2.5	VIN7	✓	WINDOW WDT	–	UVLO, SCP, OCP, OVP, UVP, TSD	−40 to +105	VQFN56FV8080	FSs	YES
				Output Current (A)	0.2	1	2	5.2	0.15	0.3								
BD9576MUF-C	3 to 3.6	2.25	±1.8	Output Voltage (V)	5	1.8	1.35 or 1.5	1.03	2.5	VIN7	✓	WINDOW WDT	OVD/UVD TW	UVLO, SCP, OCP, OVP, UVP, TSD	−40 to +125	VQFN56FV8080	FSm	YES
				Output Current (A)	0.2	1	2	5.2	0.15	0.3								

车载摄像头用PMIC

Part No.	Supply Voltage (V)	Switching Frequency (MHz)	Item	DC-DC Output			LDO	Operating Temperature (˚C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
				CH1	CH2	CH3	CH4				
BD868A0MUF-C	4 to 18	2.25	Output Voltage (V)	3.7V	1.1V	1.8V	3.3V	−40 to +125	VQFN20FV3535	FSp	YES
			Output Current (A)	2.0A	1.2A	1.0A	0.3A				
☆BD868B0MUF-C			Output Voltage (V)	3.7V	1.1V	1.8V	3.3V		VQFN20FV3535	FSp	YES
			Output Current (A)	2.0A	1.2A	0.4A	0.3A				
BD868C0MUF-C			Output Voltage (V)	3.3V	1.2V	1.8V	2.8V		VQFN20FV3535	FSp	YES
			Output Current (A)	2.0A	1.2A	1.0A	0.3A				
BD868C1MUF-C			Output Voltage (V)	3.8V	1.1V	1.8V	3.3V		VQFN20FV3535	FSs	YES
			Output Current (A)	2.0A	1.2A	1.0A	0.3A				
BD868D0MUF-C			Output Voltage (V)	3.3V	1.2V	1.8V	2.8V		VQFN20FV3535	FSp	YES
			Output Current (A)	2.0A	1.2A	1.0A	0.3A				

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*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。

☆: 开发中

工业设备/消费电子用系统电源

Intel® Atom™ E3800系列平台用电源管理IC

Part No.	Supply Voltage (V)	Item	DC-DC Output							SW	LDO output								I/F	Protection Circuit	Package (mm)
			DC-DC1 V1P0A	DC-DC2 V1P0S	DC-DC3 V1P8A	DC-DC4 VDDQ	DC-DC5 V1P05S	DC-DC6 VCC	DC-DC7 VNN	V1P8S	LDO1 VRTC	LDO2 V3P3A	LDO3 V3P3S	LDO4 V1P24A	LDO5 VSDIO	LDO6 V1P24S	LDO7 VTT	LDO8 VSFR			
BD9596BMWV	3.5 to 5.5	Output Voltage (V)	1.0	1.0	1.8	1.2 to 1.6	1.05	0.5 to 1.2	0.5 to 1.2	1.8	3.3	3.3	3.3	1.24	1.8 or 3.3	1.24	VDDQ/2	1.35	IMVP7	UVLO, TSD, SCP, OVP	UQFN88MV0100 10×10×1.0
		Output Current (mA)	700	2,600	1,800	4,500	1,300	13,000	13,000	800	120	100	500	50	20	50	530	500			

NXP “i.MX应用处理器系列” 用电源管理IC

Part No.	Correspondance	Item	DC-DC Output								LDO Output										White LED Driver	Lithiumion Charging Control	Coulomb Counter	RTC	GPO (ch)	I²C I/F	Package
			BUCK1	BUCK2	BUCK3	BUCK4	BUCK5	BUCK6	BUCK7	BUCK8	LDO1	LDO2	LDO3	LDO4	LDO5	LDO6	LDO7	LDOSNVS	LDOLPSR	LDODVREF							
BD71815AGW	i.MX 7Solo i.MX 7Dual	Output Voltage (V)	0.8 to 2.0	0.8 to 2.0	1.2 to 2.7	1.10 to 1.85	1.8 to 3.3	–	–	–	0.8 to 3.3	0.8 to 3.3	0.8 to 3.3	0.8 to 3.3	0.8 to 3.3	–	–	3	1.8	0.5× DVREFIN	✓	✓	✓	✓	1	✓	UCSP55M4C
		Output Current (mA)	800	1,000	500	1,000	1,000				100	100	50	400	250			25	100	10							
BD71837AMWV	System PMIC for i.MX 8M Family	Output Voltage (V)	0.7 to 1.3	0.7 to 1.3	0.7 to 1.3	0.7 to 1.3	0.7 to 1.35	3.0 to 3.3	1.605 to 1.995	0.8 to 1.4	3.0 to 3.3, 1.6 to 1.9	0.9, 0.8	1.8 to 3.3	0.9 to 1.8	1.8 to 3.3	0.9 to 1.8	1.8 to 3.3	–	–	–	–	–	–	–	–	✓	UQFN68CV8080
		Output Current (mA)	3,600	4,000	2,100	1,000	2,500	3,000	1,500	3,000	10	10	300	250	300	300	150										
BD71847AMWV	System PMIC for i.MX 8M Mini Family	Output Voltage (V)	0.7 to 1.3	0.7 to 1.3	–	–	0.7 to 1.35	2.6 to 3.3	1.605 to 1.995	0.8 to 1.4	3.0 to 3.3, 1.6 to 1.9	0.9, 0.8	1.8 to 3.3	0.9 to 1.8	0.8 to 3.3	0.9 to 1.8	–	–	–	–	–	–	–	–	–	✓	UQFN56BV7070
		Output Current (mA)	3,000	3,000			3,000	3,000	1,500	3,000	10	10	300	250	300	300											
BD71850MWV	System PMIC for i.MX 8M Nano Family	Output Voltage (V)	0.7 to 1.3	0.7 to 1.3	–	–	0.7 to 1.35	2.6 to 3.3	1.605 to 1.995	0.8 to 1.4	3.0 to 3.3, 1.6 to 1.9	0.9, 0.8	1.8 to 3.3	0.9 to 1.8	0.8 to 3.3	0.9 to 1.8	–	–	–	–	–	–	–	–	–	✓	UQFN56BV7070
		Output Current (mA)	3,000	3,000			3,000	3,000	1,500	3,000	10	10	300	250	300	300											

◎Intel® Atom™ 是Intel Corp. 或其子公司在美国以及其他国家的商标或注册商标。

非绝缘型 AC-DC转换器

表面贴装SOP封装 内置650V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Function	Max Duty (%)	ON Resistance (Ω)	OCP Current (A)	Dynamic Over-Current Protection (A)	Start-up Current (mA)	Package
BM2P109TF	10.0	650	PWM	100	–	75	9.5	0.45	1.4	3	SOP8
BM2P104QF							4.0	0.80	1.6		SOP8
BM2P129TF	12.0						9.5	0.45	1.4		SOP8
BM2P139TF	13.0										SOP8
BM2P135TF							4.5				SOP8
BM2P134QF							4.0	0.80	1.6		SOP8
BM2P159PF	14.2						9.5	0.30	0.95		SOP8
BM2P159T1F	15.0							0.45	1.4		SOP8
BM2P189TF	18.0										SOP8
BM2P209TF	20.0										SOP8
BM2P249TF	24.8										SOP8

非绝缘型 AC-DC转换器

表面贴装SOP封装 内置800V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Function	Max Duty (%)	ON Resistance (Ω)	OCP Current (A)	Dynamic Over-Current Protection (A)	Start-up Current (mA)	Package
BM2P107QKF	10.0	800	PWM	100	–	75	7.5	0.80	1.6	3	SOP8
BM2P137TKF	13.0							0.45	1.4		SOP8
BM2P137QKF								0.80	1.6		SOP8

高散热DIP封装 内置650V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Function	Max Duty (%)	ON Resistance (Ω)	OCP Current (A)	Dynamic Over-Current Protection (A)	Start-up Current (mA)	Package
BM2PAA1Y-Z	2.0	650	PWM	65	✓	40	1.5	1.76	1.76	3	DIP7K
BM2PAB1Y-Z				25	–			1.76	1.76		DIP7K
BM2PDA1Y-Z				65	✓			0.88	0.93		DIP7K
BM2PDB1Y-Z				25	–			0.88	0.93		DIP7K
BM2P101W-Z	10.0			65	✓			1.46	2.55		DIP7K
BM2P101X-Z								2.00	3.5		DIP7K
BM2P104Q-Z				100	–	75	4.0	0.80	1.6		DIP7K
BM2P121W-Z	12.0			65	✓	40	1.5	1.46	2.55		DIP7K
BM2P121X-Z								2.00	3.5		DIP7K
BM2P121XH-Z*								2.00	3.5		DIP7K
BM2P131W-Z	13.0							1.46	2.55		DIP7K
BM2P131X-Z								2.00	3.5		DIP7K
BM2P134Q-Z				100	–	75	4.0	0.80	1.6		DIP7K
BM2P141W-Z	14.0			65	✓	40	1.5	1.46	2.55		DIP7K
BM2P141X-Z								2.00	3.5		DIP7K
BM2P151W-Z	15.0							1.46	2.55		DIP7K
BM2P151X-Z								2.00	3.5		DIP7K
BM2P151S-Z								2.30	4.025		DIP7K
BM2P161W-Z	16.8						1.9	1.46	4.015		DIP7K
BM2P161X-Z							1.5	2.00	3.5		DIP7K
New **BM2P181S-Z**	17.75			25	–			2.60	3.90		DIP7K
BM2P181W-Z	18.0			65	✓			1.46	2.55		DIP7K
BM2P181X-Z								2.00	3.5		DIP7K
BM2P201W-Z	20.0							1.46	2.55		DIP7K
BM2P201X-Z								2.00	3.5		DIP7K
BM2P241W-Z	24.8							1.46	2.55		DIP7K
BM2P241X-Z								2.00	3.5		DIP7K
BM2P249Q-Z				100	–		9.5	0.80	2.2		DIP7K

高散热DIP封装 内置800V耐压FET

Part No.	Output Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Function	Max Duty (%)	ON Resistance (Ω)	OCP Current (A)	Dynamic Over-Current Protection (A)	Start-up Current (mA)	Package
BM2P107QK-Z	10.0	800	PWM	100	–	75	7.5	0.80	1.6	3	DIP7K
BM2P137QK-Z	13.0										DIP7K

*TSD温度变更

绝缘/非绝缘型 AC-DC转换器

表面贴装SOP封装 内置730V耐压FET

Part No.	Supply Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Function	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over-Current Protection (V)	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
BM2P0363F	8.9 to 26.0	730	PWM	25	–	75	3.0	4.0	0.7	0.4	Extrenal	3.0	–	–	Auto Restart	SOP8
BM2P064EF				65	✓				1.05				✓			SOP8
BM2P104EF				100						0.3						SOP8
BM2P134EF				130												SOP8
BM2P060LF-Z	11 to 60			65			0.7	21.0	✓	✓		15			–	SOP20A
BM2P061LF-Z							1.0	12.0								SOP20A
BM2P060MF-Z							0.7	21.0								SOP20A
BM2P061MF-Z							1.0	12.0								SOP20A
BM2P063MF-Z							3.0	4.0								SOP20A

表面贴装SOP封装 内置800V耐压FET

Part No.	Supply Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Function	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over-Current Protection (V)	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
BM2P0363KF	8.9 to 26.0	800	PWM	25	–	75	3.0	–	0.7	0.4	Extrenal	3.0	–	–	Auto Restart	SOP8
BM2P074KF	10.2 to 26.0			65	✓		6.7	2.0	–							SOP8

高散热DIP封装 内置650V耐压FET

Part No.	Supply Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Function	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over-Current Protection (V)	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
BM2P0391	8.9 to 26.0	650	PWM	100	✓	75	2.4	5.2	–	0.4	Extrenal	6	✓ (adjustable)	–	Auto Restart	DIP7K

高散热DIP封装 内置730V耐压FET

Part No.	Supply Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Function	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over-Current Protection (V)	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
New BM2P06A1J-Z	8.9 to 26.0	730	PWM	65	✓	80	1.0	12.0	1.23	0.78	Extrenal	3.0	✓ (adjustable)	–	Auto Restart	DIP7K
New BM2P06B1J-Z														Auto Restart		DIP7K
New BM2P06A3J-Z							3.0	4.0						–		DIP7K
New BM2P06B3J-Z														Auto Restart		DIP7K
BM2P061E-Z						75	0.955	12.0	1.0	0.4		5.5		–		DIP7AK
BM2P061H-Z	10.9 to 30.0													Auto Restart		DIP7AK
BM2P0151-Z	8.9 to 26.0						1.0		–			3.0	–	–	Latch	DIP7K
BM2P0161-Z															Auto Restart	DIP7K
BM2P0361-Z							3.0	4.0								DIP7K
BM2P0362-Z								–								DIP7K
BM2P064E-Z								4.0	1.0			5.5	✓ (adjustable)			DIP7AK
BM2P101E-Z				100			0.955	12.0		0.3						DIP7AK
BM2P101H-Z	10.9 to 30.0															DIP7AK
BM2P10A1J-Z	8.9 to 26.0					80	1.0		1.23	0.78		3.0				DIP7K
BM2P10B1J-Z														Auto Restart		DIP7K
BM2P10A3J-Z							3.0	4.0						–		DIP7K
BM2P10B3J-Z														Auto Restart		DIP7K
BM2P104E-Z						75	0.955	12.0	1.0	0.3		5.5		–		DIP7AK
BM2P131E-Z				130												DIP7AK
BM2P131H-Z	10.9 to 30.0													Auto Restart		DIP7AK
BM2P134E-Z	8.9 to 26.0						3.0	4.0						–		DIP7AK
New BM2P13A1J-Z						80	1.0	12.0	1.23	0.78		3.0				DIP7K
New BM2P13B1J-Z														Auto Restart		DIP7K
New BM2P13A3J-Z							3.0	4.0						–		DIP7K
New BM2P13B3J-Z														Auto Restart		DIP7K

高散热DIP封装 内置800V耐压FET

Part No.	Supply Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Function	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over-Current Protection	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
BM2P0161K-Z	8.9 to 26.0	800	PWM	65	✓	75	1.6	9.0	–	0.4V	Extrenal	3.0	–	–	Auto Restart	DIP7K
BM2P0361K-Z							3.5	4.8								DIP7K
BM2P061EK-LBZ	10.9 to 30.0						1.6	20.0	1V			5.5	✓ (adjustable)			DIP7AK
BM2P061FK-LBZ								9.0								DIP7AK
BM2P061HK-LBZ														Auto Restart		DIP7AK
BM2P063EK-LBZ							3.5	4.8	1.05V				✓	–		DIP7AK
BM2P101FK-LBZ				100			1.6	9.0	1V	0.3V			✓ (adjustable)			DIP7AK
BM2P101HK-LBZ														Auto Restart		DIP7AK
BM2P103EK-LBZ							3.5	4.8	1.05V	0.4V			✓	–		DIP7AK
BM2P131FK-LBZ	10.9 to 26.0			130			1.6	9.0	1V	0.3V			✓ (adjustable)			DIP7AK
BM2P131HK-LBZ	10.9 to 30.0													Auto Restart		DIP7AK
BM2P133EK-LBZ	10.9 to 26.0						3.5	4.8	1.05V	0.4V			✓	–		DIP7AK
BM2P26CK-Z	11.9 to 25.5			100			6.0	3.0	Current Limiterx2A	0.13A	Built-in		✓ (fixed)		Latch	DIP7K

大功率TO220封装 内置650V耐压FET

Part No.	Supply Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Function	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over-Current Protection (A)	OCP Current (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
BM2P0163T-Z	8.9 to 26.0	650	PWM	65	✓	75	1.4	10.4	–	0.4	Extrenal	5.0	–	–	Auto Restart	TO220-7M

绝缘型 AC-DC转换器IC

内置FET　AC-DC转换器IC

表面贴装SOP封装 内置650V耐压FET

Part No.	Supply Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Function	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over-Current Protection (A)	Over-current Limiter (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Burst Frequency Adjustment	Package
BM2P051F	8.9 to 26.0	650	PWM	65	✓	75	4.0	2.6	–	0.4	Extrenal	3.0	✓ (adjustable)	Auto Restart	Latch	–	SOP8
BM2P052F															Auto Restart	–	SOP8
BM2P053F													–	–	Latch	–	SOP8
BM2P054F															Auto Restart	–	SOP8
BM2P091F							8.5	1.3					✓ (adjustable)	Auto Restart	Latch	–	SOP8
BM2P092F															Auto Restart	–	SOP8
BM2P093F													–	–	Latch	–	SOP8
BM2P094F															Auto Restart	–	SOP8
BM2P095F															Latch	✓	SOP8
BM2PA96F					–										Auto Restart	✓	SOP8

高散热DIP封装 内置650V耐压FET

Part No.	Supply Voltage (V)	MOSFET V_{DS} (Max) (V)	Control Method	Switching Frequency (kHz)	Frequency Reduction Function	Max Duty (%)	ON Resistance (Ω)	Peak Current (A)	Dynamic Over-Current Protection (A)	Over-current Limiter (V)	Current Sense Resistor	Start-up Current (mA)	Brown Out	Brown Out OVP Protection	V_{CC} OVP	Package
BM2P011	8.9 to 26.0	650	PWM	65	✓	75	1.4	10.4	–	0.4	Extrenal	3	✓ (adjustable)	Auto Restart	Latch	DIP7K
BM2P012															Auto Restart	DIP7K
BM2P013													–	–	Latch	DIP7K
BM2P014															Auto Restart	DIP7K
BM2P031							2.4	5.2					✓ (adjustable)	Auto Restart	Latch	DIP7K
BM2P032															Auto Restart	DIP7K
BM2P033													–	–	Latch	DIP7K
BM2P034															Auto Restart	DIP7K
BM2P051							4.0	2.6					✓ (adjustable)	Auto Restart	Latch	DIP7K
BM2P052															Auto Restart	DIP7K
BM2P053													–	–	Latch	DIP7K
BM2P054															Auto Restart	DIP7K
BM2P091							8.5	1.3					✓ (adjustable)	Auto Restart	Latch	DIP7K
BM2P092															Auto Restart	DIP7K
BM2P093													–	–	Latch	DIP7K
BM2P094															Auto Restart	DIP7K

内置SiC MOSFET/GaN HEMT 准谐振 AC-DC转换器IC

大功率TO220封装 内置1,700V耐压SiC MOSFET(工业设备用)

Part No.	Supply Voltage (V)	SiC MOSFET V_{DS} (Max) (V)	Control Method	Maximum Frequency (kHz)	ON Resistance (Ω)	Dynamic Over-Current Protection (A)	OCP Exchange Function	V_{CC} OVP	BR UVLO	FB OLP Protection	ZT OVP Protection	Package
BM2SCQ121T-LBZ	15 to 27.5	1,700	QR	120	1.12	–	✓	Latch	–	Auto Restart	Latch	TO220-6M
BM2SCQ122T-LBZ										Latch		TO220-6M
BM2SCQ123T-LBZ								Auto Restart		Auto Restart		TO220-6M
BM2SCQ124T-LBZ										Latch		TO220-6M

大功率TO263封装 内置1,700V耐压SiC MOSFET(工业设备用)

Part No.	Supply Voltage (V)	SiC MOSFET V_{DS} (Max) (V)	Control Method	Maximum Frequency (kHz)	ON Resistance (Ω)	Dynamic Over-Current Protection (A)	OCP Exchange Function	V_{CC} OVP	BR UVLO	FB OLP Protection	ZT OVP Protection	Package
BM2SC121FP2-LBZ	15 to 27.5	1,700	QR	120	1.12	–	✓	Latch	–	Auto Restart	Latch	TO263-7L
BM2SC122FP2-LBZ										Latch		TO263-7L
BM2SC123FP2-LBZ								Auto Restart		Auto Restart		TO263-7L
BM2SC124FP2-LBZ										Latch		TO263-7L
New **BM2SC125FP2-LBZ**									✓	Auto Restart	Auto Restart	TO263-7L

EcoGaN™ Power Stage IC

Part No.	Drain Pin Voltage (Max) (V)	Input Voltage Range (V)	Supply Pin Voltage (V)	Supply Pin Operating Current (Typ) (µA)	Supply Pin Quiescent Current (Typ) (µA)	ON Resistance (Typ) (mΩ)	Turn ON Delay Time (Typ) (ns)	Turn OFF Delay Time (Typ) (ns)	Operating Temperature (℃)	Package
Nano **BM3G015MUV-LB**	650	−0.6 to +30	6.25 to 30	450	150	150	11	15	−40 to +105	VQFN046V8080
Nano **BM3G007MUV-LB**				650	180	70	12			VQFN046V8080

◎EcoGaN™ 是ROHM Co., Ltd.的商标或注册商标。

Nano Nano Cap

Nano 标记为采用Nano Pulse Control™ 技术、Nano Energy™ 技术或Nano Cap™ 技术的产品。Nano是实现小型化和节能的罗姆创新型电源技术。
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绝缘型 FET外置 AC-DC控制器IC

PWM控制型

Part No.	Supply Voltage (V)	Control Method	Switching Frequency (kHz)	START-UP Circuit	Frequency Reduction Mode	Max Duty (%)	AC Voltage Correction	V_{CC} Recharge	Start-up Current (mA)	BR UVLO	V_{CC} OVP	FBOLP	Package
BM1P061FJ	8.9 to 26.0	PWM	65	✓	✓	75	✓	✓	3.0	✓	Auto Restart	Auto Restart	SOP-J8
BM1P062FJ											Latch		SOP-J8
BM1P065FJ								–			Auto Restart		SOP-J8
BM1P066FJ											Latch		SOP-J8
BM1P067FJ										–	Auto Restart		SOP-J8
BM1P068FJ											Latch		SOP-J8
BM1P101FJ			100					✓		✓	Auto Restart		SOP-J8
BM1P102FJ											Latch		SOP-J8
BM1P105FJ								–			Auto Restart		SOP-J8
BM1P107FJ										–			SOP-J8
BM1P10CFJ	9.3 to 55.0							✓	5.5	✓	–	Latch	SOP-J7S
BD7672BG	8.5 to 25.0		65	–	–		–	–	–	–	Latch	Auto Restart	SSOP6
BD7673AG												Latch	SSOP6
BD7679G											Auto Restart	Auto Restart	SSOP6

QR控制型(工业设备用)

Part No.	Supply Voltage (V)	Control Method	START-UP Circuit	Start-up Current (mA)	Maximum Frequency (kHz)	Frequency Reduction Mode	AC Voltage Correction	FB OLP Protection	V_{CC} OVP	ZT OVP	Package
New **BM1Q002AFJ-LB**	8.9 to 26	QR	✓	3.0	120	✓	✓	Auto Restart	Latch	Latch	SOP-J7S
New **BM1Q021AFJ-LB**									Auto Restart	Auto Restart	SOP-J7S

QR控制型

Part No.	Supply Voltage (V)	Control Method	START-UP Circuit	Start-up Current (mA)	Maximum Frequency (kHz)	Frequency Reduction Mode	AC Voltage Correction	FB OLP Protection	V_{CC} OVP	ZT OVP	Package
BM1Q002FJ	8.9 to 26.0	QR	✓	3.0	120	✓	✓	Auto Restart	Latch	Latch	SOP-J8
BM1Q011FJ									Auto Restart	–	SOP-J7S
BM1Q021FJ										Auto Restart	SOP-J8
BM1Q104FJ	14.0 to 30.0				–		–		–	Latch	SOP-J8

QR控制型 支持SiC驱动(工业设备用)

Part No.	Supply Voltage (V)	Control Method	START-UP Circuit	Start-up Current (mA)	Maximum Frequency (kHz)	Frequency Reduction Mode	AC Voltage Correction	FB OLP Protection	V_{CC} OVP	ZT OVP	Package
BD7682FJ-LB	15.0 to 27.5	QR	–	–	120	✓	✓	Auto Restart	Latch	Latch	SOP-J8
BD7683FJ-LB								Latch			SOP-J8
BD7684FJ-LB								Auto Restart	Auto Restart		SOP-J8
BD7685FJ-LB								Latch			SOP-J8

QR控制型＋PFC内置型

Part No.	Supply Voltage (V)	Control Method	START-UP Circuit	Start-up Current (mA)	QR Maximum Frequency (kHz)	PFC Maximum Frequency (kHz)	QR Frequency Reduction	PFC Frequency Reduction	PFC Output Voltage Switching	BR UVLO	V_{CC} OVP	ZT OVP	Package
BM1C101F	8.9 to 26.0	PFC+QR	✓	6.5	120	400	✓	✓	✓	✓	Auto Restart	Latch	SOP18
BM1C102F									–				SOP18

BCM型　PFC控制器IC

单级PFC

Part No.	Supply Voltage (V)	Control Method	START-UP Circuit	Zero Detection Method	OVP Detection	PFC Maximum Frequency (kHz)	Over Shoot Reduction Function	Brown Out	V_{CC} Discharge	Package
BD7690FJ	10.0 to 26.0	BCM PFC	–	Auxiliary Winding	Single	220	–	–	–	SOP-J8
BD7691FJ				Resistance	Double					SOP-J8
BD7692FJ						450	✓			SOP-J8
BD7693FJ	10.0 to 38.0			Auxiliary Winding	Single	–			✓	SOP-J8
BD7694FJ								✓		SOP-J8
New BD7695FJ	12.0 to 38.0						–	–		SOP-J8
New BD7696FJ								✓		SOP-J8

AC电压过零检测IC

AC电压过零检测IC

Part No.	Supply Voltage (V)	Maximum AC Input Voltage (V)	DC Voltage Monitor Function	Zero Cross Delay Time (μs)	Output Waveform	Stand by Current (μA)	Quiescent Current (μ)	Output Type	Protection Circuit	Operating Temperature (°C)	Package
BM1Z012FJ	10 to 28	600	–	Variable	Pulse	50	160	Nch Open Drain	TSD/UVLO	−40 to +105	SOP-J7S
BM1Z001FJ				300 to 500							SOP-J7S
BM1Z002FJ				Variable							SOP-J7S
BM1Z003FJ					Edge						SOP-J7S
BM1Z101FJ			✓	300 to 500	Pulse						SOP-J11
BM1Z102FJ				Variable							SOP-J11
BM1Z103FJ					Edge						SOP-J11

二次侧同步整流IC

二次侧同步整流IC

Part No.	Supply Voltage (V)	Control Method	Shunt Regulator Accuracy (%)	Drain Terminal Maximum Voltage (V)	Compulsion OFF Time (μs)	V_{CC} OVP	Auto Sleep Function	CCM Mode	Package
BM1R00146F	2.7 to 32.0	SR	±0.5	120	1.3	Auto Restart	✓	✓	SOP8
BM1R00147F					2.0				SOP8
BM1R00148F					3.0				SOP8
BM1R00149F					3.6				SOP8
BM1R00178F					3.0		–		SOP8
BD87007FJ			±1.0		3.85				SOP-J8
BD85506F	5.0 to 32.0	SR for LLC			–		✓	–	SOP14

绝缘型DC-DC转换器IC

绝缘型DC-DC转换器IC(无需光电耦合器)(工业设备用)

Part No.	Output Power	SW Terminal Withstand Voltage (V)	Over-Current Detection Current (A)	Input Voltage (V)	Switching Frequency (kHz)	Control Method	Features						Package
							Enable	Soft Start	Light-Load Efficiency	UVLO	Over-Current Protection	Thermal Protection	
BD7F100EFJ-LB	1W at V_{IN} 5.0V 5W at V_{IN} 24V	60	1.25	3.0 to 40.0	400	Adaptive on-time	✓	✓	✓	✓	Recovery	Recovery	HTSOP-J8
BD7F100HFN-LB													HSON8
BD7F200UEFJ-LB	5W at V_{IN} 12V 10W at V_{IN} 24V	60	2.75	8.0 to 40.0									HTSOP-J8
BD7F200HFN-LB													HSON8
BD7J101EFJ-LB	2.5W at V_{IN} 24V 5W at V_{IN} 48V	120	0.9	8.0 to 80.0									HTSOP-J8
BD7J101HFN-LB													HSON8
BD7J201EFJ-LB	5W at V_{IN} 24V 10W at V_{IN} 48V	120	1.8	8.0 to 80.0									HTSOP-J8
☆BD7J201HFN-LB													HSON8
BD7J200EFJ-LB	5W at V_{IN} 24V 10W at V_{IN} 48V	120	1.75	8.0 to 80.0									HTSOP-J8
BD7J200HFN-LB													HSON8

☆: 开发中

支持车载 绝缘型DC-DC转换器IC

支持车载 绝缘型DC-DC转换器IC(无需光电耦合器)

Part No.	Output Power	SW Terminal Withstand Voltage (V)	Over-Current Detection Current (A)	Input Voltage (V)	Switching Frequency (kHz)	Control Method	Features						Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
							Enable	Soft Start	Light-Load Efficiency	UVLO	Over-Current Protection	Thermal Protection			
New BD7F005EFJ-C	2W at V_{IN} 8V	62	1.38	3.4 to 42.0	363	Adaptive on-time	✓	✓	✓	✓	Recovery	Recovery	HTSOP-J8	FSs	YES
BD7F105EFJ-C	4W at V_{IN} 8V		2.6										HTSOP-J8	FSs	YES
BD7F205EFJ-C	6W at V_{IN} 8V		3.8										HTSOP-J8	FSs	YES

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*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

栅极驱动器

内置绝缘元件的栅极驱动器

支持车载 内置绝缘元件的栅极驱动器

Part No.	Input-side Supply Voltage (V)	Output-side Positive Supply Voltage (V)	Output-side Negative Supply Voltage (V)	Isolation Voltage (Vrms)	I/O Delay Time (ns)	Minimum Input Pulse Width (ns)	Output Current (A)	Operating Temperature (˚C)	Function	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BM6101FV-C	4.5 to 5.5	14 to 24	−12 to 0	2,500	350	180	±3	−40 to +125	Active miller clamping/Fault signal output/ UVLO/SCP/DESAT/Soft turn-off function for SCP	SSOP-B20W	FSs	YES
BM6102FV-C	4.5 to 5.5	14 to 20	—	2,500	200	100	±3	−40 to +125	Active miller clamping/Fault signal output/ UVLO/SCP/DESAT/Soft turn-off function for SCP	SSOP-B20W	FSs	YES
BM6104FV-C	4.5 to 5.5	10 to 24	−12 to 0	2,500	150	90	±3	−40 to +125	Active miller clamping/Fault signal output/ UVLO/SCP/DESAT/Soft turn-off function for SCP	SSOP-B20W	FSs	YES
BM6109FV-C	4.5 to 5.5	14 to 18	—	2,500	700	600	±4.5	−40 to +125	Active miller clamping/Fault signal output/ UVLO/SCP/Soft turn-off function for SCP	SSOP-B28W	FSs	YES
New **BM6112HFV-C**	4.5 to 5.5	14 to 20	−12 to 0	3,750	150	90	±20	−40 to +125	Active miller clamping/Fault signal output/ UVLO/SCP/DESAT/Soft turn-off function for SCP	SSOP-B28WR6	FSs	YES
BM6112FV-C	4.5 to 5.5	14 to 20	−12 to 0	3,750	150	90	±20	−40 to +125	Active miller clamping/Fault signal output/ UVLO/SCP/DESAT/Soft turn-off function for SCP	SSOP-B28W	FSs	YES
BM61M22BFJ-C	4.5 to 5.5	9 to 24	—	2,500	60	60	±2	−40 to +125	UVLO	SOP-JW8	FSs	YES
BM61M41RFV-C	4.5 to 5.5	9 to 24	—	3,750	65	60	±4	−40 to +125	Active miller clamping/UVLO	SSOP-B10W	FSs	YES
BM61S40RFV-C	4.5 to 5.5	16 to 20	—	3,750	65	60	±4	−40 to +125	Active miller clamping/UVLO/OVP	SSOP-B10W	FSs	YES
BM61S41RFV-C	4.5 to 5.5	16 to 24	—	3,750	65	60	±4	−40 to +125	Active miller clamping/UVLO	SSOP-B10W	FSs	YES

内置绝缘元件的栅极驱动器(工业设备用)

Part No.	Input-side Supply Voltage (V)	Output-side Positive Supply Voltage (V)	Output-side Negative Supply Voltage (V)	Isolation Voltage (Vrms)	I/O Delay Time (ns)	Minimum Input Pulse Width (ns)	Output Current (A)	Operating Temperature (˚C)	Function	Package
BM6108FV-LB	4.5 to 5.5	10 to 24	−12 to 0	2,500	150	90	±3	−40 to +105	Active miller clamping/Fault signal output/UVLO/ SCP/DESAT/Soft turn-off function for SCP	SSOP-B20W

车载用 内置绝缘元件的栅极驱动器(内置FLYBACK电源)

Part No.	Input-side Supply Voltage (V)	Output-side Positive Supply Voltage (V)	Output-side Negative Supply Voltage (V)	Isolation Voltage (Vrms)	I/O Delay Time (ns)	Minimum Input Pulse Width (ns)	Output Current (A)	Operating Temperature (˚C)	Function	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BM60052AFV-C	4 to 32	10 to 20	−12 to 0	2,500	120	90	±3	−40 to +125	Active miller clamping/Fault signal output/UVLO/DESAT/ Ready output/Soft turn-off function for DESAT	SSOP-B28W	FSs	YES
BM60054AFV-C	4 to 32	10 to 20	−12 to 0	2,500	120	90	±3	−40 to +125	Active miller clamping/Fault signal output/UVLO/SCP/ Ready output/Soft turn-off function for SCP	SSOP-B28W	FSs	YES
BM60055FV-C	4.5 to 30.0	9 to 24	—	2,500	250	170	±5	−40 to +125	Active miller clamping/Fault signal output/UVLO/SCP/ Soft turn-off function for SCP/OCP/2 level turn off	SSOP-B28W	FSs	YES
BM60060FV-C	8 to 24	13.5 to 24.0	—	2,500	210	90	±9	−40 to +125	Active miller clamping/Fault signal output/UVLO/SCP/ Soft turn-off function for SCP/Gate Resistance Selecting	SSOP-B28W	FSs	YES
BM60059FV-C	4.5 to 24	14 to 24	—	2,500	450	400	External Settings /−10	−40 to +125	Active miller clamping/Fault signal output/UVLO/SCP/ Soft turn-off function for SCP/Gate Resistance Selecting	SSOP-B28W	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1“ComfySIL™ 功能安全类别”的详情请参阅封二。

其他

IGBT/MOSFET低边栅极驱动器

Part No	Input-side Supply Voltage (V)	I/O Delay Time (ns)	Output Current (A)	ch	Operating Temperature (˚C)	Package	Automotive Grade AEC-Q100
BD2310G	4.5 to 18	15	4/−4	1	−40 to +125	SSOP5	—

IGBT/MOSFET高边低边栅极驱动器

Part No	Input-side Supply Voltage (V)	High-side Floating Supply Voltage (V)	I/O Delay Time (ns)	minimum Output Current (A)	ch	Miller Clamping Function	Operating Temperature (˚C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD2320UEFJ-LA	7.5 to 14.5	100	27/29	3.5/−4.5*2	2	—	−40 to +125	HTSOP-J8	—	—
BM60212FV-C	10 to 24	1,200	75	3/−3		✓	−40 to +125	SSOP-B20W	FSs	YES
BM60213FV-C	10 to 24	1,200	75	3/−3		—	−40 to +125	SSOP-B20W	FSs	YES

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*2 BD2320UEFJ-LA is a standard value.

(LAPIS Technology产品)

电池管理系统(BMS)用非绝缘型栅极驱动器

Part No.	Supply Voltage (V)	Gate Driving Voltage (V) Min	Turn on Time (μs) Max	Turn off Time (μs) Max	Operating temperature (˚C)	Package
ML5810A	+6.5 to +64.0	10	350	70	−40 to +105	P-TSSOP20-0225-0.65-TK6

电源管理开关

1ch小型高边开关IC

Part No.	Supply Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over-Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over-Current (ms)	Discharge Resistance (Ω)	Package
BD2220G	2.7 to 5.5	160	H Active	0.5	0.5/—/1.0	1.0	Latch	Recovery	15	—	SSOP5
BD2221G	2.7 to 5.5	160	L Active	0.5	0.5/—/1.0	1.0	Latch	Recovery		—	SSOP5
BD6538G	2.7 to 5.5	150	H Active	0.5	0.5/—/1.0	1.0	Latch	Recovery		—	SSOP5
BD2224G	2.7 to 5.5	150	H Active	0.5	0.55/0.78/1.0	1.0	Recovery	Recovery		—	SSOP5
BD2225G	2.7 to 5.5	150	L Active	0.5	0.55/0.78/1.0	1.0	Recovery	Recovery		—	SSOP5
BD2226G	2.7 to 5.5	150	H Active	0.65	0.75/1.0/1.35	1.0	Recovery	Recovery		—	SSOP5
BD2227G	2.7 to 5.5	150	L Active	0.65	0.75/1.0/1.35	1.0	Recovery	Recovery		—	SSOP5
BD2232G	2.7 to 5.5	100	H Active	1.0	1.15/1.275/1.4	1.0	Recovery	Recovery		60	SSOP5
BD2233G	2.7 to 5.5	100	L Active	1.0	1.15/1.275/1.4	1.0	Recovery	Recovery		60	SSOP5
BD2240G	2.7 to 5.5	110	H Active	0.75	0.82/0.97/1.12	1.0	Recovery	Recovery		60	SSOP5
BD2241G	2.7 to 5.5	110	L Active	0.75	0.82/0.97/1.12	1.0	Recovery	Recovery		60	SSOP5
BD2246G	2.7 to 5.5	110	H Active	0.5	0.63/0.765/0.9	1.0	Recovery	Recovery		60	SSOP5
BD2247G	2.7 to 5.5	110	L Active	0.5	0.63/0.765/0.9	1.0	Recovery	Recovery		60	SSOP5
BD2248G	2.7 to 5.5	110	H Active	0.2	0.2/0.3/0.4	1.0	Recovery	Recovery		60	SSOP5
BD2222G*	2.8 to 5.5	90	H Active	1.5	0.2 to 1.7 (adjustable)	0.6	Recovery	Recovery	7	—	SSOP6
BD2242G*	2.8 to 5.5	90	H Active	1.5	0.2 to 1.7 (adjustable)	0.6	Recovery	Recovery		60	SSOP6
BD2243G*	2.8 to 5.5	90	L Active	1.5	0.2 to 1.7 (adjustable)	0.6	Recovery	Recovery		60	SSOP6

*UL approved File No. E243261

车载用 1ch小型高边开关IC

Part No.	Supply Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over-Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over-Current (ms)	Discharge Resistance (Ω)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD22621G-M	2.7 to 5.5	120	H Active	0.15	0.18/0.30/0.42	1.0	Recovery	Recovery	15	60	SSOP5	FSs	YES
BD2262G-M	2.7 to 5.5	120	H Active	0.2	0.2/0.3/0.4	1.0	Recovery	Recovery		60	SSOP5	FSs	YES
BD22641G-M	2.7 to 5.5	120	H Active	0.5	0.57/0.76/0.96	1.0	Recovery	Recovery		60	SSOP5	FSs	YES
BD2264G-M	2.7 to 5.5	120	H Active	0.5	0.63/0.765/0.9	1.0	Recovery	Recovery		60	SSOP5	FSs	YES
BD2265G-M	2.7 to 5.5	120	L Active	0.5	0.63/0.765/0.9	1.0	Recovery	Recovery		60	SSOP5	FSs	YES
BD2266G-M	2.7 to 5.5	120	H Active	0.75	0.82/0.97/1.12	1.0	Recovery	Recovery		60	SSOP5	FSs	YES
BD2267G-M	2.7 to 5.5	120	L Active	0.75	0.82/0.97/1.12	1.0	Recovery	Recovery		60	SSOP5	FSs	YES
BD2268G-M	2.7 to 5.5	110	H Active	1.0	1.15/1.275/1.4	1.0	Recovery	Recovery		60	SSOP5	FSs	YES
BD2269G-M	2.7 to 5.5	110	L Active	1.0	1.15/1.275/1.4	1.0	Recovery	Recovery		60	SSOP5	FSs	YES
BD2244G-M*2	2.8 to 5.5	100	H Active	1.5	0.2 to 1.7 (adjustable)	0.6	Recovery	Recovery	7	60	SSOP6	FSs	YES
BD2245G-M*2	2.8 to 5.5	100	L Active	1.5	0.2 to 1.7 (adjustable)	0.6	Recovery	Recovery		60	SSOP6	FSs	YES

1ch小型高边开关IC(工业设备用)

Part No.	Supply Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over-Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over-Current (ms)	Discharge Resistance (Ω)	Package
BD2220G-LB	2.7 to 5.5	160	H Active	0.5	0.5/—/1.0	1.0	Latch	Recovery	15	—	SSOP5
BD2221G-LB	2.7 to 5.5	160	L Active	0.5	0.5/—/1.0	1.0	Latch	Recovery		—	SSOP5
BD6538G-LB	2.7 to 5.5	150	H Active	0.5	0.5/—/1.0	1.0	Latch	Recovery		—	SSOP5
BD2224G-LB	2.7 to 5.5	150	H Active	0.5	0.55/0.78/1.0	1.0	Recovery	Recovery		—	SSOP5
BD2225G-LB	2.7 to 5.5	150	L Active	0.5	0.55/0.78/1.0	1.0	Recovery	Recovery		—	SSOP5
BD2226G-LB	2.7 to 5.5	150	H Active	0.65	0.75/1.0/1.35	1.0	Recovery	Recovery		—	SSOP5
BD2227G-LB	2.7 to 5.5	150	L Active	0.65	0.75/1.0/1.35	1.0	Recovery	Recovery		—	SSOP5

1ch高边开关IC

Part No.	Supply Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over-Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over-Current (ms)	Discharge Resistance (Ω)	Package
BD82020FVJ*2	2.8 to 5.5	90	H Active	1.1	1.1/1.5/2.0	0.4	Recovery	Recovery	12	75	TSSOP-B8J
BD82021FVJ*2	2.8 to 5.5	90	L Active	1.1	1.1/1.5/2.0	0.4	Recovery	Recovery		75	TSSOP-B8J
BD82022FVJ*2	2.8 to 5.5	90	H Active	1.5	1.5/2.0/2.6	0.4	Recovery	Recovery		75	TSSOP-B8J
BD82023FVJ*2	2.8 to 5.5	90	L Active	1.5	1.5/2.0/2.6	0.4	Recovery	Recovery		75	TSSOP-B8J
BD82024FVJ*2	2.8 to 5.5	90	H Active	2.1	2.1/2.5/3.3	0.4	Recovery	Recovery		75	TSSOP-B8J
BD82025FVJ*2	2.8 to 5.5	90	L Active	2.1	2.1/2.5/3.3	0.4	Recovery	Recovery		75	TSSOP-B8J
BD2051AFJ	2.7 to 5.5	80	H Active	0.5	0.7/1.0/1.6	1.2	Recovery	Recovery	1.3	—	SOP-J8
BD2065AFJ	2.7 to 5.5	80	H Active	1.0	1.1/1.5/2.3	1.2	Recovery	Recovery	2.5	—	SOP-J8
BD82028FVJ*2	4.5 to 5.5	72	H Active	0.5	0.6/1.0/1.2	0.3	Recovery	Recovery	13	75	TSSOP-B8J
BD82029FVJ*2	4.5 to 5.5	72	L Active	0.5	0.6/1.0/1.2	0.3	Recovery	Recovery		55	TSSOP-B8J
BD82030FVJ*2	4.5 to 5.5	72	H Active	1.0	1.05/1.5/1.8	0.3	Recovery	Recovery		55	TSSOP-B8J
BD82031FVJ*2	4.5 to 5.5	72	L Active	1.0	1.05/1.5/1.8	0.3	Recovery	Recovery		55	TSSOP-B8J
BD82032FVJ*2	4.5 to 5.5	72	H Active	1.5	1.55/2.0/2.3	0.3	Recovery	Recovery		55	TSSOP-B8J
BD82033FVJ*2	4.5 to 5.5	72	L Active	1.5	1.55/2.0/2.3	0.3	Recovery	Recovery		55	TSSOP-B8J
BD82034FVJ*2	4.5 to 5.5	72	H Active	2.0	2.05/2.5/2.8	0.3	Recovery	Recovery		55	TSSOP-B8J
BD82035FVJ*2	4.5 to 5.5	72	L Active	2.0	2.05/2.5/2.8	0.3	Recovery	Recovery		55	TSSOP-B8J
BD82038FVJ*2	2.7 to 5.5	72	H Active	0.5	0.60/1.00/1.20	0.5	Recovery	Recovery	7	55	TSSOP-B8J
BD82039FVJ*2	2.7 to 5.5	72	L Active	0.5	0.60/1.00/1.20	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82040FVJ*2	2.7 to 5.5	72	H Active	1.0	1.05/1.50/1.80	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82041FVJ*2	2.7 to 5.5	72	L Active	1.0	1.05/1.50/1.80	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82042FVJ*2	2.7 to 5.5	72	H Active	1.5	1.55/2.00/2.30	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82043FVJ*2	2.7 to 5.5	72	L Active	1.5	1.55/2.00/2.30	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82044FVJ*2	2.7 to 5.5	72	H Active	2.0	2.05/2.50/2.80	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82045FVJ*2	2.7 to 5.5	72	L Active	2.0	2.05/2.50/2.80	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82046FVJ*2	2.7 to 5.5	72	H Active	2.5	2.70/3.20/3.80	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82047FVJ*2	2.7 to 5.5	72	L Active	2.5	2.70/3.20/3.80	0.5	Recovery	Recovery		55	TSSOP-B8J
BD82001FVJ	2.7 to 5.5	70	H Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery	15	—	TSSOP-B8J
BD82000FVJ	2.7 to 5.5	70	L Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery		—	TSSOP-B8J
BD82065FVJ	2.7 to 5.5	70	H Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery		—	TSSOP-B8J
BD82061FVJ	2.7 to 5.5	70	L Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery		—	TSSOP-B8J

车载用 1ch高边开关IC

Part No.	Supply Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over-Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over-Current (ms)	Discharge Resistance (Ω)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD82004FVJ-M	2.7 to 5.5	70	H Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery	15	—	TSSOP-B8J	FSs	YES
BD82005FVJ-M	2.7 to 5.5	70	L Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery		—	TSSOP-B8J	FSs	YES
BD82006FVJ-M	2.7 to 5.5	70	H Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery		—	TSSOP-B8J	FSs	YES
BD82007FVJ-M	2.7 to 5.5	70	L Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery		—	TSSOP-B8J	FSs	YES

1ch高边开关IC(工业设备用)

Part No.	Supply Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over-Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over-Current (ms)	Discharge Resistance (Ω)	Package
BD82001FVJ-LB	2.7 to 5.5	70	H Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery	15	—	TSSOP-B8J
BD82000FVJ-LB	2.7 to 5.5	70	L Active	0.9	1.0/1.5/2.0	0.8	Recovery	Recovery		—	TSSOP-B8J
BD82065FVJ-LB	2.7 to 5.5	70	H Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery		—	TSSOP-B8J
BD82061FVJ-LB	2.7 to 5.5	70	L Active	1.1	1.5/2.4/3.0	0.8	Recovery	Recovery		—	TSSOP-B8J

2ch高边开关IC

Part No.	Supply Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over-Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over-Current (ms)	Discharge Resistance (Ω)	Package
BD6516F*2	3.0 to 5.5	110	H Active	1.1	1.2/1.65/2.5	1.3	Recovery	Recovery	1	—	SOP8
BD2066FJ*2	2.7 to 5.5	80	H Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery	15	—	SOP-J8
BD2062FJ*2	2.7 to 5.5	80	L Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery		—	SOP-J8

车载用 2ch高边开关IC

Part No.	Supply Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over-Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over-Current (ms)	Discharge Resistance (Ω)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD2068FJ-M	2.7 to 5.5	80	H Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery	15	—	SOP-J8	FSs	YES
BD2069FJ-M	2.7 to 5.5	80	L Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery		—	SOP-J8	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。

*1 "ComfySIL™ 功能安全类别" 的详情请参阅封二。

*2 UL approved File No. E243261

电源管理开关

2ch高边开关IC(工业设备用)

Part No.	Supply Voltage (V)	ON Resistance (mΩ)	Control Input Logic	Output Current (A)	Over-Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	OCP	Thermal Shut Down	Flag Output Delay/ at Over-Current (ms)	Discharge Resistance (Ω)	Package
BD2066FJ-LB*	2.7 to 5.5	80	H Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery	15	–	SOP-J8
BD2062FJ-LB*	2.7 to 5.5	80	L Active	1.0	1.5/2.4/3.0	0.8	Recovery	Recovery		–	SOP-J8

*UL approved File No. E243261

负载开关IC

Part No.	Input Voltage (V)	Current Consumption (μA)	ON Resistance (mΩ)	Number of Output channel (ch)	Control Input Logic	Output Current (A)	Over-Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	Thermal Shut Down	Discharge Resistance (Ω)	Package (mm)
BD6528HFV	V_{DD}=2.7 to 4.5/ V_{IN}=0 to 2.7	20	110	1	H Active	0.5	–	0.5	–	70	HVSOF6
BD6529GUL	V_{DD}=2.7 to 4.5/ V_{IN}=0 to 2.7	20	100		H Active	0.5	–	0.5	–	70	VCSP50L1 1.0×1.5, H=0.55
BD2200GUL	2.7 to 5.5	20	100		H Active	0.5	–	1.0	–	70	VCSP50L1 1.0×1.5, H=0.55
BD2201GUL	2.7 to 5.5	20	100		H Active	1.0	–	1.0	–	70	VCSP50L1 1.0×1.5, H=0.55
BD2204GUL	V_{IN}1=2.7 to 4.5/ V_{IN}2=1.2 to 2.4	30	120		H Active	0.5	–	0.06	Recovery	80	VCSP50L1 1.0×1.5, H=0.55
BD2202G	2.7 to 3.6	70	150		H Active	0.2	0.25/–/1.0	1.2	Recovery	–	SSOP5
BD2206G	2.7 to 3.6	70	150		H Active	0.5	0.8/–/1.6	1.2	Recovery	–	SSOP5
BD6520F	3.0 to 5.5	110	50		H Active	2.0	–	2.0	Latch	350	SOP8
BD6522F	3.0 to 5.5	110	50		H Active	2.0	–	1.0	Latch	350	SOP8

负载开关IC(工业设备用)

Part No.	Input Voltage (V)	Current Consumption (μA)	ON Resistance (mΩ)	Number of Output channel (ch)	Control Input Logic	Output Current (A)	Over-Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	Thermal Shut Down	Discharge Resistance (Ω)	Package
BD2202G-LB	2.7 to 3.6	70	150	1	H Active	0.2	0.25/–/1.0	1.2	Recovery	–	SSOP5
BD2206G-LB	2.7 to 3.6	70	150		H Active	0.5	0.8/–/1.6	1.2	Recovery	–	SSOP5

小型高边负载开关IC

Part No.	Input Voltage (V)	Current Consumption (μA)	ON Resistance (mΩ)	Number of Output channel (ch)	Control Input Logic	Output Current (A)	Over-Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	Thermal Shut Down	Discharge Resistance (Ω)	Package (mm)
BUS1DJC0GWZ	1.1 to 5.0	0.35	63	1	H Active	2.0	–	0.012	–	80	UCSP30L1 0.8×0.8, H=0.35
BUS1DJC3GWZ	1.1 to 5.0	0.35	63		H Active	2.0	–	0.19	–	80	UCSP30L1 0.8×0.8, H=0.35
BDS2EJAAGUL	3.0 to 3.6	0.2	45	2	H Active	1.0	1.0	– (Soft Start)	Recovery	30	VCSP50L1 1.95×1.0, H=0.55

34V耐压1ch小型高边负载开关IC

Part No.	Input Voltage (V)	Current Consumption (μA)	ON Resistance (mΩ)	Number of Output channel (ch)	Control Input Logic	Output Current (A)	Over-Current Detection (A) Min/Typ/Max	Output Turn on Time (ms)	Thermal Shut Down	Discharge Resistance (Ω)	Package
BV1HAL45EFJ	8 to 32	0.5	45	1	H Active	3.4 to 9.9 Adjustable	17.4 to 34.6	11.79 to 64.05 Adjustable	Recovery	–	HTSOP-J8
BV1HAL85EFJ	8 to 32	0.5	85		H Active	2.5 to 6.5 Adjustable	8.7 to 17.3	5.45 to 29.60 Adjustable	Recovery	–	HTSOP-J8
BV1HALA5EFJ	8 to 32	0.5	150		H Active	0.75 to 2.1 Adjustable	5.7 to 11.3	5.45 to 29.60 Adjustable	Recovery	–	HTSOP-J8

高边NMOSFET用控制器IC

Part No.	Supply Voltage (V)	Current Consumption (μA)	Output Voltage (V)		Number of Output channel (ch)	Control Input Logic	Output Turn on Time (ms)	Discharge Resistance (Ω)	Package
			V_{CC}=3.3V	V_{CC}=5.0V					
BD2270HFV	2.7 to 5.5	50	9.5	13.5	1	H Active	0.13	200	HVSOF5

高边NMOSFET用控制器IC(工业设备用)

Part No.	Supply Voltage (V)	Current Consumption (μA)	Output Voltage (V)		Number of Output channel (ch)	Control Input Logic	Output Turn on Time (ms)	Discharge Resistance (Ω)	Package
			V_{CC}=3.3V	V_{CC}=5.0V					
BD2270HFV-LB	2.7 to 5.5	50	9.5	13.5	1	H Active	0.13	200	HVSOF5

无线供电LSI

(LAPIS Technology产品)

13.56MHz Wireless Charge

Part No.	Function Overview	Maximum Charging Power	NFC Forum Compliant	Feature	Charging Control	NFC Tag Type	Comunication Speed (kbps)	I/F	Clock Source (MHz)	Supply Voltage (V)	Application	Operating Temperature (°C)*1	Package
ML7630	Power Receiver	200mW		Built-in LDO	Current, Voltage, Temperature Monitoring	NFC Forum Type3 Tag	212	I^{2}C slave×1ch	–	Generated from magnetic field	Consumer	−40 to +85	S-UFLGA34-2.59×2.59-0.40-W (WL-CSP34)
ML7631	Power Transmitter				Transmission Power Adjust Control		212	I^{2}C slave×1ch	27.12MHz (Crystal)	4.5 to 5.5	Consumer	−40 to +85	P-WQFN32-0505-0.50-A63
☆**ML7650**	Power Receiver	3W			Current, Voltage, Temperature Monitoring	NFC Forum Type3 Tag	212/424	I^{2}C slave×1ch SPI slave×1ch	–	Generated from magnetic field	Consumer/ Industrial	−40 to +85	S-UFLGA30-2.28×2.61-0.40-W (WL-CSP30) P-WQFN32-0505-0.50-A63
☆**ML7651**	Power Transmitter				Transmission Power Adjust Control		212/424	I^{2}C slave×1ch SPI slave×1ch	27.12MHz (Crystal)	4.5 to 5.5	Consumer/ Industrial	−40 to +85	P-WQFN40-0606-0.50-63
ML7660	Power Receiver	1W			Current, Voltage, Temperature Monitoring	NFC Forum Type3 Tag	212/424	I^{2}C slave×1ch SPI slave×1ch	–	Generated from magnetic field	Consumer/ Industrial	−40 to +85	S-UFLGA30-2.28×2.61-0.40-W (WL-CSP30) P-WQFN32-0505-0.50-A63
ML7661	Power Transmitter				Transmission Power Adjust Control		212/424	I^{2}C slave×1ch SPI slave×1ch	27.12MHz (Crystal)	4.5 to 5.5	Consumer/ Industrial	−40 to +85	P-WQFN40-0606-0.50-63
New **ML7662**	Power Receiver	1W	✓*2		Current, Voltage, Temperature Monitoring	NFC Forum Type3 Tag	212/424	I^{2}C slave×1ch SPI slave×1ch	–	Generated from magnetic field	Consumer/ Industrial	−40 to +85	S-UFLGA30-2.28×2.61-0.40-W (WL-CSP30) P-WQFN32-0505-0.50-A63
New **ML7663**	Power Transmitter		✓*2		Transmission Power Adjust Control		212/424	I^{2}C slave×1ch SPI slave×1ch	27.12MHz (Crystal)	4.5 to 5.5	Consumer/ Industrial	−40 to +85	P-WQFN40-0606-0.50-63
New **ML7670**	Power Receiver	250mW	✓*2	Built-in LDO	Current, Voltage, Temperature Monitoring	NFC Forum Type3 Tag	212/424	I^{2}C slave×1ch SPI slave×1ch	–	Generated from magnetic field	Consumer	−40 to +85	S-UFLGA30-2.28×2.56-0.40-W (WL-CSP30)
New **ML7671**	Power Transmitter		✓*2		Transmission Power Adjust Control		212/424	I^{2}C slave×1ch SPI slave×1ch	27.12MHz (Crystal)	4.5 to 5.5	Consumer	−40 to +85	P-WQFN40-0606-0.50-63
☆**ML7740**	Power Receiver	1W×2			Current, Voltage, Temperature Monitoring	NFC Forum Type3 Tag	212/424	I^{2}C slave×1ch	–	Generated from magnetic field	Consumer	−40 to +85	S-UFLGA30-2.28×2.61-0.40-W (WL-CSP30)
☆**ML7741**	Power Transmitter			Dual TX	Transmission Power Adjust Control		212/424	I^{2}C slave×1ch	27.12MHz (Crystal)	2.6 to 5.5	Consumer	−40 to +85	TBD
☆**ML7750**	Power Receiver	1W		Antenna Sharing	Current, Voltage, Temperature Monitoring	NFC Forum Type3 Tag	212/424	I^{2}C slave×1ch	–	Generated from magnetic field	Consumer	−40 to +85	S-UFLGA30-2.28×2.61-0.40-W (WL-CSP30)
☆**ML7751**	Power Transmitter				Transmission Power Adjust Control		212/424	I^{2}C slave×1ch	27.12MHz (Crystal)	4.5 to 5.5	Consumer	−40 to +85	P-WQFN40-0606-0.50-63

车载用 13.56MHz Wireless Charge

Part No.	Function Overview	Maximum Charging Power	NFC Forum Compliant	Feature	Charging Control	NFC Tag Type	Comunication Speed (kbps)	I/F	Clock Source (MHz)	Supply Voltage (V)	Application	Operating Temperature (°C)*1	Package
New **ML7800**	Power Receiver	1W	✓*2	AEC-Q100	Current, Voltage, Temperature Monitoring	NFC Forum Type3 Tag	212/424	I^{2}C slave×1ch	–	Generated from magnetic field	Automotive*3	−40 to +85	P-WQFN32-0505-0.50-A63
New **ML7801**	Power Transmitter		✓*2	AEC-Q100	Transmission Power Adjust Control		212/424	I^{2}C slave×1ch	27.12MHz (Crystal)	4.5 to 5.5	Automotive*3	−40 to +85	P-WQFN40-0606-0.50-63

*1 通信时。
*2 仅限Type-F
*3 详细内容请咨询销售人员。

☆: 开发中

电池管理

电池充电IC

Part No.	Supply Voltage (V)	ON Resistance (mΩ)	Charge Voltage (V)	Charge Current Accuracy (%)	Switching Frequency (kHz)	Operating Temperature (˚C)	Package
BD71631QWZ	(2.9V: 30mA, 4.0V: 300mA) to 5.5	–	2.0 to 4.7 (±2%)	±10 (ICHG=100mA to 300mA)	–	–30 to +105	UMMP10LZ1824
BD8664GW	4.1 to 5.5	70	8.3±0.5%	±2	1,000	–30 to +85	UCSP75M2
BD8665GW	4.1 to 5.5	70	8.4±0.5%	±3	1,000	–30 to +85	UCSP75M2
BD99950MUV	6.0 to 24.0	–	8.4/12.6±0.5%	±3	600 to 1,200	–10 to +85	VQFN20PV3535
BD99954GW	3.8 to 25.0	–	4.192/8.4/12.592/16.8±0.5%	±2 to ±40	600 to 1,200	–30 to +85	UCSP55M3C
BD99954MWV	3.8 to 25.0	–	4.192/8.4/12.592/16.8±0.5%	±2 to ±40	600 to 1,200	–30 to +85	UQFN040V5050

充电保护IC

标准保护型

Part No.	Absolute Maximum Ratings (V)	Over Voltage Detection Level (V)	Under Voltage Detection Level (V)	Over-Current Detection Level (A)	Ron (mΩ)	OK/FLGB PIN Logic			Package (mm)
						<UVLO	Normal	>OVLO	
BD6040GUL	+30	6.4±0.2	2.65±0.12	Min 1.2	125 (Typ)	H	L	H	VCSP50L1 1.6×1.6, H=Max 0.55
BD6041GUL	+30	5.85±0.15	2.65±0.12	Min 1.2	125 (Typ)	H	L	H	VCSP50L1 1.6×1.6, H=Max 0.55

负电压保护型

Part No.	Absolute Maximum Ratings (V)	Over Voltage Detection Level (V)	Under Voltage Detection Level (V)	Over-Current Detection Level (A)	Ron (mΩ)	OK/FLGB PIN Logic			Package (mm)
						<UVLO	Normal	>OVLO	
BD6046GUL	±30	6.7±0.2	3.6±0.18	Min 1.2	250 (Typ)	H	H	L	VCSP50L2 2.5×2.5, H=Max 0.55
BD6047AGUL	±30	5.85±0.15	3.6±0.18	Min 1.7	125 (Typ)	H	H	L	VCSP50L1 1.95×1.95, H=Max 0.55

标准保护型: 防止来自接合器/USB的异常电压。内置过电压闭锁电路、过电流限制电路、低电压保护电路、内部启动延迟以及状态标志。
负电压保护型: 加之以往的保护功能，增加了防止USB逆接引起的负电压保护功能无需任何附加部件。

车载用 蓄电元件电池平衡IC

车载用 EDLC电池平衡IC(支持4～6节电池)

Part No.	Absolute Maximum Ratings (V)	Cell Voltage Detection Range VCB (V)	Over-voltage Detection Voltage 1 (V)	Over-voltage Detection Voltage 2 (V)	Shunt SW Ron (Ω)	Function			Package (mm)	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
						EN	OVLO	Stack IC			
BD14000EFV-C	+28	2.4 to 3.1V± (1%) (0.1V/step usable)	VCB+0.15 or 0.25 (OVLOSEL=L or H)	VCB+0.3 or 0.5 (OVLOSEL=L or H)	1 (Typ)	✓	✓	✓	HTSSOP-B30 10.0×7.6, H=Max 1.0	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 "ComfySIL™ 功能安全类别" 的详情请参阅封二。

车载用 库仑计数器IC

车载用 库仑计数器IC

Part No.	Supply Voltage (V)	Gain (V/V)	Resolution (bit)	I/F	Operating Temperature (˚C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD7220FV-C	4.5 to 5.5	5/25/51	16	SPI	–40 to +125	SSOP-B20 6.5×6.4 (t=1.45)	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 "ComfySIL™ 功能安全类别" 的详情请参阅封二。

锂电池监控LSI

(LAPIS Technology产品)

独立式

Part No.	Description	Supply Voltage (V)	Overvoltage Detection Accuracy (Typ) (mV)	Charge/ Discharge Control FET driver	Cell Balancing Switch	Current Consumption (Typ) (μA)		Overvoltage/ Undervoltage Detection	Charge and Discharge Over-Current Detection	Temperature Detection	Short Circuit Detection	Open Wire Detection	Parameter Change	Operation Temperature (˚C)	Package
						Operating	Power-down								
ML5241	5-cells, 2nd protection	+5 to +25	±25	–	–	1	0.1	Overvoltage detection	–	–	–	✓	Mask option	–20 to +85	P-WSON10 -0303-0.50-63
ML5205	5-cells/2nd protection, number of connected battery cells detection					3	–								P-VSSOP8 -0150-0.65-TK6
ML5206	5-cells, 2nd protection with Autonomous Cell Balancing				Internal (Autonomous)	1									P-VSSOP8 -0150-0.65-TK6
ML5243	5-cells, cell voltage/current/temperature protection			Low-side	–	4.5	0.1	✓	✓	✓	✓			–40 to +85	P-TSSOP20 -0225-0.65-TK6
ML5233	10-cells, cell voltage/current/ temperature protection, cascade connection	+5 to +60	±15			25						–			P-LQFP32 -0707-0.80-TK6
ML5245	13-cells, cell voltage/current/ temperature protection, cell voltage monitoring	+7 to +80													P-SSOP30 -56-0.65-ZK6
ML5232	14-cells, 2nd protection		±20	–		2.5	–	Overvoltage detection	–	–	–			–40 to +105	P-TSSOP20 -0225-0.65-TK6

模拟前端型

Part No.	Description	Supply Voltage (V)	Cell Voltage Measurement Error (Typ) (mV)	Monitoring Output	Charge/ Discharge Control FET driver	Cell Balancing Switch	Current Consumption (Typ) (μA)		Overvoltage/ Undervoltage Detection	Charge and Discharge Over-Current Detection	Short Circuit Detection	Parameter Change	Operation Temperature (˚C)	Package
							Operating	Power-down						
ML5204	5-cells, analog monitoring output	+3.3 to +42.0	±25	cell voltage/ current	–	internal	14	0.1	✓	✓	✓	Mask option	–40 to +85	P-TSSOP20 -0225-0.65-TK6
ML5248	7-cells, analog monitoring output	+5.0 to +31.5	±20		High-side		32		–	–		MCU control		P-SSOP30 -56-0.65-ZK6
ML5236	14-cells, ADC built-in, digital monitoring output	+8 to +64	±15	cell voltage/ current/temperature			330		Overvoltage detection					P-TQFP44 -1010-0.80-ZK6
ML5238	16-cells, analog monitoring output	+7 to +80	±20	cell voltage/ current	Low-side		50		–					P-QFP44 -910-0.80-2K6
ML5239	16-cells, ADC built-in, cascade connection, digital monitoring output	+10 to +72	±10	cell voltage/ temperature	–	external	1200				–			P-TQFP64 -1010-0.50-ZK6

电压检测器(复位IC)

电压检测器　品名构成说明

系列:
48：无延迟、Open-Drain 输出
49：无延迟、CMOS 输出
45：固定延迟、Open-Drain 输出
46：固定延迟、CMOS 输出
52：可变延迟、Open-Drain 输出
53：可变延迟、CMOS 输出
71：过电压检测型、无延迟、Open-Drain 输出
70：过电压检测型、无延迟、Open-Drain 输出
73：过电压检测型、无延迟、CMOS 输出

系列选项:
E / 无：有效 “L”
L：有效 “L”
H：有效 “H”
HW：高耐压 Window 检测型
W：Window 检测型

检测电压:
Ex. 23: 2.3V

延迟时间:
无 : 无延迟 / 可变
5: 50ms
1: 100ms
2: 200ms

封装:
G: SSOP5 (SOT23-5)
SSOP6 (SOT23-6)
HFV: HVSOF5
NVX: SSON004R1010

产品级别:
1 / 无 : 一般产品
M / 2M: 车载信息娱乐用
C / 2C: 车载用

电压检测器(复位IC)

过电压检测型(复位IC)

过电压检测用电压检测器

Part No.	Voltage Detection Precision at T_a=+25˚C (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA)		Hysteresis Voltage (mV)	“L” Output Current (mA)	Package
						I_{CCL}	I_{CCH}			
BD71L4LG-1	±0.8	4.05	1.2 to 7.0	–	Open Drain	0.6	0.7	30	4 (V_{DD}=4.25V)	SSOP5
BD71L4LHFV-1	±0.8	4.05	1.2 to 7.0	–					4 (V_{DD}=4.25V)	HVSOF5
BD71L3SHFV	±1.0	3.83	1.2 to 7.0	–					4 (V_{DD}=4.03V)	HVSOF5

过电压检测用电压检测器(支持125˚C)

Part No.	Types	Voltage Detection Precision Within The All Temperature (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA)		Hysteresis Voltage (V)	“L” Output Current (mA)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
							ON	OFF		V_{DD}=1.2V			
Nano **BD70HxxG-2C** series	0.1V step 4 types	±1.4	3.46 to 3.76	0.8 to 6.0	0.1	Open Drain	0.27	0.3	–	1.0mA or more	SSOP5	FSs	YES
Nano **BD73HxxG-2C** series	0.1V step 4 types		3.46 to 3.76	0.8 to 6.0	0.1	CMOS					SSOP5	–	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。
可在型号的“xx”处加入检测电压。具体请参见数据表中的规格。

Nano Nano Energy
Nano 标记为采用Nano Pulse Control™ 技术、Nano Energy™ 技术或Nano Cap™ 技术的产品。Nano是实现小型化和节能的罗姆创新型电源技术。
上述 Nano 标记为采用Nano Energy™ 超低功耗技术的产品。Nano Pulse Control™、Nano Energy™ 和Nano Cap™ 是ROHM Co., Ltd.的商标或注册商标。

延迟时间可变型 电压检测器

延迟时间外部设定型 电压检测器

Part No.	Types	Voltage detection Precision at T_a=+25˚C (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA)		Hysteresis Voltage (V)	“L” Output Current (mA)		RESET Active Timeout Period (ms)	Package
							ON	OFF		V_{DD}=1.2V	V_{DD}=2.4V		
New **BD52xxG-1** series	0.1V step 42 types	±0.9	0.9 to 5.0	0.8 to 6.0	0.1	Open Drain	0.23	0.27	V_{DET}×0.05	1.0 or more	2.0 or more	Variable	SSOP5

检测电压/延迟时间 外部设定型 电压检测器

Part No.	Voltage Detection Precision at T_a=+25˚C (%)	Voltage Detection (V)	Power Supply Voltage (V)	Output type	Circuit Current (μA)	Hysteresis Voltage (V)	Output ON Resistance (Ω)	RESET Active Timeout Period (ms)	Package
BD4142HFV	±1.8	0.5	3.0 to 5.5	Open Drain	7.5	0.01	100	Variable	HVSOF5

延迟时间外部设定型电压检测器：品名中的xx为检测电压值(0.9V ～ 5.0V的0.1V阶跃)。　例：BD52xxG-1系列中需要2.3V检测电压值的情况下，品名为BD5223G-1。

车载用电压检测器

电压检测器(105°C对应)

Part No.	Types	Voltage Detection Precision at T_a=+25°C (%)	Voltage Detection (V)	RESET Active Voltage (V)	Detection Step (V)	Output type	Circuit Current (μA)		Hysteresis Voltage (V)	"L" Output Current (mA)		RESET Active Timeout Period (ms)	Delay Time Precision (%)	Manual Reset PIN	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
							ON	OFF									
BD48ExxG-M series	0.1V step 38 types	±1	2.3 to 6.0	0.95 to 10.00	0.1	Open Drain	0.60 (V_{DET}=4.8V)	0.85 (V_{DET}=4.8V)	V_{DET}×0.05	0.4 or more (V_{DD}=1.5V V_{DS}=0.5V)	2 or more (V_{DD}=2.4V V_{DS}=0.5V)	–	–	NO	SSOP5	FSs	YES
BD49ExxG-M series	0.1V step 38 types		2.3 to 6.0	0.95 to 10.00	0.1	CMOS						–	–	NO	SSOP5	FSs	YES
BD45Exx5G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1	Open Drain	0.80 (V_{DET}=4.8V)	0.85 (V_{DET}=4.8V)	V_{DET}×0.05	0.45 or more (V_{DD}=1.2V V_{DS}=0.3V)	1.3 or more (V_{DD}=2.4V V_{DS}=0.3V)	50	–	YES	SSOP5	FSs	YES
BD45Exx1G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1							100	–	YES	SSOP5	FSs	YES
BD45Exx2G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1							200	–	YES	SSOP5	FSs	YES
BD46Exx5G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1	CMOS						50	–	YES	SSOP5	FSs	YES
BD46Exx1G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1							100	–	YES	SSOP5	FSs	YES
BD46Exx2G-M series	0.1V step 26 types		2.3 to 4.8	0.95 to 10.00	0.1							200	–	YES	SSOP5	FSs	YES
Nano **BD52xxG-2M** series	0.1V step 42 types	±2.5 (All Temperature)	0.9 to 5.0	0.8 to 6.0	0.1	Open Drain	0.23	0.27	V_{DET}×0.05	1.0 or more (V_{DD}=1.2V V_{DS}=0.4V)	2.0 or more (V_{DD}=2.4V V_{DS}=0.4V)	Variable	±30% (All Temperature)	NO	SSOP5	FSs	YES
Nano **BD53xxG-2M** series	0.1V step 42 types		0.9 to 5.0	0.8 to 6.0	0.1	CMOS						Variable		NO	SSOP5	FSs	YES

电压检测器(125°C对应)

Part No.	Types	Voltage Detection Precision Within The All Temperature (%)	Voltage Detection (V)	RESET Active Voltage Range (V)	Detection step (V)	Output Type	Circuit current (μA)		Hysteresis Voltage (V)	"L" Output current (mA) (V_{DS}=0.4V)		RESET Active Timeout Period (ms)	Delay Time Precision (%)	Manual Reset PIN	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
							ON	OFF									
Nano **BD52xxG-2C** series	0.1V step 42 types	±3	0.9 to 5.0	0.8 to 6.0	0.1	Open Drain	0.23	0.27	V_{DET}×0.05	1.0 or more (V_{DD}=1.2V)	2.0 or more (V_{DD}=2.4V)	Variable	±50 (All Temperature)	NO	SSOP5	FSs	YES
Nano **BD53xxG-2C** series	0.1V step 42 types		0.9 to 5.0	0.8 to 6.0	0.1	CMOS						Variable		NO	SSOP5	FSs	YES
Nano **BD5320NVX-2C**	1	±2.5	2.0	0.8 to 6.0	–							Variable		NO	SSON004R1010	FSs	YES
Nano **BD52xxNVX-2C** series	8 types		1.4 to 3.1	0.8 to 6.0	–	Open Drain						Variable		NO	SSON004R1010	FSs	YES
Nano **BD70HxxG-2C/ BD70HxxG-C** series	0.1V step 5 types	±1.4	3.46 to 3.76/ 3.06	0.8 to 6.0	0.1		0.27	0.3	–			–	–	NO	SSOP5	FSs/FSs	YES
Nano **BD73HxxG-2C** series	0.1V step 4 types		3.46 to 3.76	0.8 to 6.0	0.1	CMOS						–		NO	SSOP5	FSs	YES

窗口电压检测器(125°C对应)

Part No.	Operating Supply Voltage (V)	Voltage Detection Precision Within The All Temperature (%)	Over Voltage Detection (V)	Low Voltage Detection (V)	Output Type	Circuit current (μA)	Hysteresis Voltage (V)	"L" Output Current (mA) (V_{DS}=0.4V)		RESET Active Timeout Period (ms)	Delay Time Precision (%)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
Nano **BD48HW0G-C**	1.8 to 40	±0.75	1.277	1.277	Open Drain	0.5	V_{DET}×0.01	2 or more (V_{DD}=1.8V)		–	–	SSOP6	FSs	YES
BD48W00G-C	1.6 to 6.0	±2.5	1.2	1.2		3		1 or more (V_{DD}=1.6V)	2 or more (V_{DD}=2.4V)			SSOP6	FSs	YES
Nano **BD52W01G-C**		±5	1.32	1.08		0.3				Variable	±50 (All Temperature)	SSOP6	FSs	YES
Nano **BD52W02G-C**			1.65	1.35								SSOP6	FSs	YES
Nano **BD52W03G-C**			1.98	1.62								SSOP6	FSs	YES
Nano **BD52W04G-C**			2.75	2.25								SSOP6	FSs	YES
Nano **BD52W05G-C**			3.63	2.97								SSOP6	FSs	YES
Nano **BD52W06G-C**			5.5	4.5								SSOP6	FSs	YES

品名中的“xx”为检测电压值。　例：BD48ExxG-M系列中需要2.3V检测电压值的情况下，品名为BD48E23G-M。

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车载用电源监测IC

4ch电源良好(看门狗计时器＋复位)

Part No.	Supply Voltage (V)	RESET Detection Voltage (V)	Power good Detection Voltage (V)	Detection level (%)	Detection Precision (%)	Power good ch	Output type	WDT type	RESET Active Timeout Period	Self-diagnosis function	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD39040MUF-C	2.7 to 5.5	Variable	Variable	±10	±3	4	Open Drain	Window Type	10ms	YES	VQFN16FV3030	FSs	YES
BD39042MUF-C	2.7 to 5.5			±6	±1.4				10ms		VQFN16FV3030	FSs	YES

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其他

看门狗计时器复位IC

Part No.	Voltage Detection Precision (%)	Voltage Detection (V)	RESET Active Voltage (V)	Output type	Circuit Current (μA)	Hysteresis Voltage (V)	"L" Output Current (mA)		RESET Active Timeout Period	Delay Circuit Resistance (MΩ)	WDT Active Voltage (V)	INH Mode (Active)	Package
					ON		V_{DD}=1.2V	V_{DS}=0.5V					
BD37A19FVM	±1.5	1.9	1.0 to 10.0	Open Drain	5	V_{DET}×0.13	0.7		Variable	10	2.5 to 10.0	H	MSOP8
BD37A41FVM	±1.5	4.1	1.0 to 10.0			V_{DET}×0.035						H	MSOP8
BD87A28FVM	±1.5	2.8	1.0 to 10.0			V_{DET}×0.045						L	MSOP8
BD87A29FVM	±1.5	2.9	1.0 to 10.0			V_{DET}×0.05						L	MSOP8
BD87A34FVM	±1.5	3.4	1.0 to 10.0									L	MSOP8
BD87A41FVM	±1.5	4.1	1.0 to 10.0			V_{DET}×0.035						L	MSOP8
BD99A41F	±1.5	4.1	1.0 to 10.0									H	SOP8

复合型(2ch复位＋比较器)电压检测器

Part No.	Voltage Detection Precision (%)	Voltage Detection (V)	Output type	Circuit Current (μA) V_{SB}=5V	Hysteresis Voltage (mV)	RESET Active Timeout Period	Input Voltage (V)	Package
BD3775AF	±1.5	1.23	Open Collector+Constant Current Pull Up	350	28	Variable	3.5 to 18.0	SOP8

电机/执行机构驱动器

⇨ 点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

DC有刷电机驱动器

H桥驱动器 7V耐压

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD6210F	1	3.0 to 5.5	0.5	2.0 or more	0.8 or less	1.0	Forward/ Reverse/ Standby (Idle)/ Brake	SOP8
BD6210HFP								HRP7
BD6211F			1.0			1.0		SOP8
BD6211HFP								HRP7
BD6212FP			2.0			0.5		HSOP25
BD6212HFP								HRP7

H桥驱动器 18V耐压

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD6220F	1	6.0 to 15.0	0.5	2.0 or more	0.8 or less	1.5	Forward/ Reverse/ Standby (Idle)/ Brake	SOP8
BD6221F			1.0			1.5		SOP8
BD6222FP			2.0			1.0		HSOP25
BD6222HFP								HRP7
BD6225FP	2		0.5			1.5		HSOP25
BD6226FP			1.0			1.5		HSOP25

H桥驱动器 36V耐压

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD6230F	1	6.0 to 32.0	0.5	2.0 or more	0.8 or less	1.5	Forward/ Reverse/ Standby (Idle)/ Brake	SOP8
BD6231F			1.0			1.5		SOP8
BD6231HFP								HRP7
BD6232FP			2.0			1.0		HSOP25
BD6232HFP								HRP7
BD6236FP	2		1.0			1.5		HSOP25
BD6236FM								HSOP-M28
BD6237FM			2.0			1.0		HSOP-M28
BD62105AFVM	1	8.0 to 28.0	0.5			1.8		MSOP8
New **BD62110JEFJ**			1.0					HTSOP-J8
New **BD62120JEFJ**			2.0			0.65		HTSOP-J8
New **BD62130JEFJ**			3.0			0.35		HTSOP-J8
BD62210AEFV	2		1.0			1.9		HTSSOP-B28
BD60203EFV			1.7			0.65		HTSSOP-B24
BD62220AEFV			2.0					HTSSOP-B28
BD62221MUV	2	8.0 to 28.0	2.0			0.55		VQFN032V5050

H桥驱动器 40V耐压

Part No.	ch	Supply Voltage (V)	Output Current (A)	Output Modes	Output ON Resistance (Upper + Lower) (Typ) (Ω)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD16950EFV-C	1	5.5 to 40.0	—	Available to select High, Low or Hi-Z Output by each Output terminal.	—	−40 to +125	HTSSOP-B24	FSs	YES
BD16939AEFV-C	3 (Half 6ch)	6.3 to 32.0	1.0	Available to select High, Low or Hi-Z Output by each Output terminal.	1.35	−40 to +125	HTSSOP-B28	FSs	YES
BD16938AEFV-C	4 (Half 8ch)	6.3 to 32.0	1.0	Available to select High, Low or Hi-Z Output by each Output terminal.	1.4	−40 to +125	HTSSOP-B28	—	YES
BD16912EFV-C	1	6.0 to 18.0	3.0	Forward/Reverse/ Standby/Brake	0.36	−40 to +125	HTSSOP-B20	FSs	YES

H桥驱动器 50V耐压

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD63130AFM	1	8.0 to 46.2	3.0	2.0 or more	0.8 or less	0.55	Forward/ Reverse/ Standby (Idle)/ Brake	HSOP-M36
BD63150AFM			5.0			0.3		HSOP-M36

H桥驱动器 大电流

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD62321HFP	1	6.0 to 32.0	3.0	2.0 or more	0.8 or less	1.0	Forward/ Reverse/ Standby (Idle)/ Brake	HRP7

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DC有刷电机驱动器

H桥驱动器 高速驱动系列

Part No.	ch	Supply Voltage (V)	Output Current (A)	Input Threshold Voltage (V)		Output ON Resistance (Typ) (Ω)	Output Modes	Package
				H Level	L Level			
BD6736FV	1	2.0 to 9.0	1.0 peak 3.2	2.0 or more	0.7 or less	0.35	Forward/Reverse/ Standby (Idle)/ Brake	SSOP-B20
BD6376GUL	1	2.0 to 9.0	1.0	2.0 or more	0.7 or less	0.45		VCSP50L1
BD65494MUV	1	2.0 to 9.0	1.0 peak 2.5	2.0 or more	0.7 or less	0.55		VQFN016V3030
BD63576NUX	1	2.0 to 10.0	1.2 peak 3.2	V_{CC}×0.7 or more	V_{CC}×0.3 or less	0.55		VSON008X2020
BD65491FV	1	1.8 to 16.0	1.2 Peak 4	1.45 or more	0.5 or less	0.35		SSOP-B16
BD65496MUV	1	1.8 to 16.0	1.2 peak 5	1.45 or more	0.5 or less	0.35		VQFN024V4040
BD63573NUV	1	2.0 to 16.0	1.2 peak 3.2	1.45 or more	0.5 or less	0.38		VSON010V3030
BD6735FV	2	2.0 to 8.0	1.0	2.0 or more	0.7 or less	1.0		SSOP-B20
BD63572MUV	2	2.0 to 9.0	1.0 peak 2.5	1.85 or more	0.9 or less	0.4		VQFN20PV3535
BD63565EFV	2	1.8 to 16.0	1.0	1.45 or more	0.5 or less	0.9		HTSSOP-B20
BD65492MUV	2	1.8 to 16.0	1.0	1.45 or more	0.5 or less	0.9		VQFN024V4040

步进电机驱动器

高性能、高可靠性 36V耐压系列 步进电机驱动器 适用于PPC、MFP、工业设备等

BD63740FM	CLK IN		Iomax. 4.0A	1/16STEP	Constant Current PWM	FW/RW Switching	DECAY SW		HIGH POWER Package			ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO		Short Protection	
BD63731EFV	CLK IN		Iomax. 3.0A	1/16STEP	Constant Current PWM	FW/RW Switching	DECAY SW	Thin PKG	HIGH POWER Package	FUNCTION COMPATIBLE *5	PIN COMPATIBLE *6	ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO		Short Protection	Protection
BD63730EFV	CLK IN	PARA IN	Iomax. 3.0A	1/4STEP	Constant Current PWM	FW/RW Switching	DECAY SW	Thin PKG	SMALL SIZE POWER PKG			ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO	4kV	Short Protection	Protection
BD63725BEFV	CLK IN		Iomax. 2.5A	1/4STEP	Constant Current PWM	FW/RW Switching	DECAY SW	Thin PKG	SMALL SIZE POWER PKG	FUNCTION COMPATIBLE *5	PIN COMPATIBLE *6	ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO		Short Protection	Protection
BD63720AEFV	CLK IN		Iomax. 2.0A	1/4STEP	Constant Current PWM	FW/RW Switching	DECAY SW	Thin PKG	SMALL SIZE POWER PKG	FUNCTION COMPATIBLE *5	PIN COMPATIBLE *6	ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO		Short Protection	Protection
BD63715AEFV	CLK IN		Iomax. 1.5A	1/4STEP	Constant Current PWM	FW/RW Switching	DECAY SW	Thin PKG	SMALL SIZE POWER PKG	FUNCTION COMPATIBLE *5	PIN COMPATIBLE *6	ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO		Short Protection	Protection
BD63710AEFV	CLK IN		Iomax. 1.0A	1/4STEP	Constant Current PWM	FW/RW Switching	DECAY SW	Thin PKG	SMALL SIZE POWER PKG	FUNCTION COMPATIBLE *5	PIN COMPATIBLE *6	ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO		Short Protection	Protection
BD63920MUV	CLK IN	PARA IN	Iomax. 2.0A	1/16STEP	Constant Current PWM	FW/RW Switching	DECAY SW		SMALL SIZE POWER PKG			ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO		Short Protection	
BD63910MUV	CLK IN	PARA IN	Iomax. 1.0A	1/16STEP	Constant Current PWM	FW/RW Switching	DECAY SW		SMALL SIZE POWER PKG			ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO		Short Protection	
BD63716AMWV	CLK IN		Iomax. 1.5A	1/4STEP	Constant Current PWM	FW/RW Switching	DECAY SW		SMALL SIZE POWER PKG			ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO		Short Protection	
BD68720EFV		PARA IN	Iomax. 2.0A	1/4STEP	Constant Current PWM		DECAY SW	Thin PKG	SMALL SIZE POWER PKG	FUNCTION COMPATIBLE *3	PIN COMPATIBLE *4	ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO		Short Protection	Protection
BD68715EFV		PARA IN	Iomax. 1.5A	1/4STEP	Constant Current PWM		DECAY SW	Thin PKG	SMALL SIZE POWER PKG	FUNCTION COMPATIBLE *3	PIN COMPATIBLE *4	ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO		Short Protection	Protection
BD68710EFV		PARA IN	Iomax. 1.0A	1/4STEP	Constant Current PWM		DECAY SW	Thin PKG	SMALL SIZE POWER PKG	FUNCTION COMPATIBLE *3	PIN COMPATIBLE *4	ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO		Short Protection	Protection
BD6389FM	CLK IN	PARA IN	Iomax. 2.2A	1/4STEP	Constant Current PWM	FW/RW Switching	DECAY SW		SMALL SIZE POWER PKG	FUNCTION COMPATIBLE *1	PIN COMPATIBLE	ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO	6kV	Short Protection	Protection
BD6387EFV	CLK IN	PARA IN	Iomax. 2.0A	1/4STEP	Constant Current PWM	FW/RW Switching	DECAY SW	Thin PKG	SMALL SIZE POWER PKG	FUNCTION COMPATIBLE *1	PIN COMPATIBLE *2	ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO	6kV	Short Protection	Protection
BD6385EFV	CLK IN	PARA IN	Iomax. 1.5A	1/4STEP	Constant Current PWM	FW/RW Switching	DECAY SW	Thin PKG	SMALL SIZE POWER PKG	FUNCTION COMPATIBLE *1	PIN COMPATIBLE *2	ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO	6kV	Short Protection	Protection
BD6383EFV	CLK IN	PARA IN	Iomax. 1.0A	1/4STEP	Constant Current PWM	FW/RW Switching	DECAY SW	Thin PKG	SMALL SIZE POWER PKG	FUNCTION COMPATIBLE *1	PIN COMPATIBLE *2	ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO	6kV	Short Protection	Protection

*1 BD6387EFV, BD6385EFV, BD6383EFV和BD6389FM功能兼容。
*2 BD6387EFV, BD6385EFV和BD6383EFV引脚兼容。
*3 BD68720EFV, BD68715EFV和BD68710EFV功能兼容。
*4 BD68720EFV, BD68715EFV和BD68710EFV引脚兼容。
*5 BD63731EFV, BD63725BEFV, BD63720AEFV, BD63715AEFV和BD63710AEFV功能兼容。
*6 BD63731EFV, BD63725BEFV, BD63720AEFV, BD63715AEFV和BD63710AEFV引脚兼容。

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V_{CC}			High Level	Low Level		
BD63740FM	8 to 28	4.0	2.0	2.0	0.8	0.28	HSOP-M36
BD63731EFV	8 to 28	3.0	2.0	2.0	0.8	0.28	HTSSOP-B28
BD63730EFV	19 to 28	3.0	2.0	2.0	0.8	0.4	HTSSOP-B54
BD63725BEFV	8 to 28	2.5	2.0	2.0	0.8	0.35	HTSSOP-B28
BD63720AEFV	19 to 28	2.0	2.0	2.0	0.8	0.65	HTSSOP-B28
BD63715AEFV	19 to 28	1.5	2.0	2.0	0.8	0.95	HTSSOP-B28
BD63710AEFV	19 to 28	1.0	2.0	2.0	0.8	1.2	HTSSOP-B28
BD63920MUV	8 to 28	2.0	2.5	2.0	0.8	0.49	VQFN028V5050
BD63910MUV	8 to 28	1.0	2.5	2.0	0.8	1.3	VQFN028V5050
BD63716AMWV	8 to 28	1.5	2.0	2.0	0.8	0.85	UQFN040V5050
BD68720EFV	19 to 28	2.0	2.0	2.0	0.8	0.65	HTSSOP-B28
BD68715EFV	19 to 28	1.5	2.0	2.0	0.8	0.95	HTSSOP-B28
BD68710EFV	19 to 28	1.0	2.0	2.0	0.8	1.2	HTSSOP-B28
BD6389FM	10 to 28	2.2	4.5	2.0	0.8	0.7	HSOP-M36
BD6387EFV	10 to 28	2.0	4.5	2.0	0.8	0.8	HTSSOP-B40
BD6385EFV	10 to 28	1.5	4.5	2.0	0.8	1.0	HTSSOP-B40
BD6383EFV	10 to 28	1.0	4.5	2.0	0.8	1.5	HTSSOP-B40

高效驱动 36V耐压系列 步进电机驱动器

BD65520MUV	CLK IN	Iomax. 2.0A	1/32STEP	Constant Current PWM	FW/RW Switching	DECAY SW	SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P.	UV LO	OVLO	Short Protection

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V_{CC}			High Level	Low Level		
New **BD65520MUV**	8 to 28	2.0	10.0	2.0	0.8	0.55	VQFN040V6060

图标说明

CLK IN	控制信号输入 CLK-IN型	PARA IN	控制信号输入 PARALLEL-IN型	Iomax. 1.0A / Iomax. 1.5A / Iomax. 2.0A / Iomax. 2.2A / Iomax. 2.5A / Iomax. 3.0A / Iomax. 4.0A	最大输出电流	1/4STEP / 1/16STEP / 1/32STEP	STEP
Constant Current PWM	恒流PWM	FW/RW Switching	可以切换正转和反转	DECAY SW	SLOW/FAST/MIX衰减转换功能	Thin PKG	薄型封装
SMALL SIZE POWER PKG	大功率封装	HIGH POWER Package	功能兼容	FUNCTION COMPATIBLE	大功率封装	PIN COMPATIBLE	引脚与其他厂家兼容轻松替换
ONE POWER	内置稳压器实现单电源系统	T.S.D.	内置温度保护电路	O.C.P.	内置过电流保护电路	UV LO	内置低电压保护电路
OVLO	内置过电压保护电路	4kV / 6kV	静电耐压	Short Protection	相邻引脚短路保护	Protection	IC逆装保护

标准36V耐压系列 步进电机驱动器

BD6395FP	PARA IN	Iomax. 1.5A	1/4STEP	Constant Current PWM		SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P	UVLO	OVLO	4kV		FUNCTION COMPATIBLE *1	PIN COMPATIBLE *2
BD6393FP	PARA IN	Iomax. 1.2A	1/4STEP	Constant Current PWM		SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P	UVLO	OVLO	4kV		FUNCTION COMPATIBLE *1	PIN COMPATIBLE *2
BD68620EFV	PARA IN	Iomax. 2.0A	1/4STEP	Constant Current PWM	Thin PKG	SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P	UVLO	OVLO			FUNCTION COMPATIBLE *5	PIN COMPATIBLE
BD68610EFV	PARA IN	Iomax. 1.0A	1/4STEP	Constant Current PWM	Thin PKG	SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P	UVLO	OVLO			FUNCTION COMPATIBLE *5	PIN COMPATIBLE
BD6290EFV	PARA IN	Iomax. 0.8A	1/4STEP	Constant Current PWM	Thin PKG	SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P	UVLO	OVLO	4kV		FUNCTION COMPATIBLE *1	
BD63960EFV	PARA IN	Iomax. 1.5A	1/2STEP	Constant Current PWM	Thin PKG	SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P	UVLO	OVLO	4kV	Short Protection	FUNCTION COMPATIBLE *6	PIN COMPATIBLE *4
BD63940EFV	PARA IN	Iomax. 1.2A	1/2STEP	Constant Current PWM	Thin PKG	SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P	UVLO	OVLO	4kV	Short Protection	FUNCTION COMPATIBLE *6	PIN COMPATIBLE *4
BD63621MUV	CLK IN	Iomax. 2.0A	1/4STEP	Constant Current PWM		SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P	UVLO	OVLO		Short Protection		
BD63620AEFV	CLK IN	Iomax. 2.0A	1/4STEP	Constant Current PWM	Thin PKG	SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P	UVLO	OVLO		Short Protection	FUNCTION COMPATIBLE *3	PIN COMPATIBLE
BD63610AEFV	CLK IN	Iomax. 1.0A	1/4STEP	Constant Current PWM	Thin PKG	SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P	UVLO	OVLO		Short Protection	FUNCTION COMPATIBLE *3	PIN COMPATIBLE
BD63801EFV	CLK IN	Iomax. 0.8A	1/2STEP	Constant Current PWM	Thin PKG	SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P	UVLO	OVLO	4kV	Short Protection	FUNCTION COMPATIBLE *3	PIN COMPATIBLE
BD60223FP	CLK IN	Iomax. 1.5A	1/16STEP	Constant Current PWM		SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P	UVLO	OVLO				
BD63888AEKV	CLK IN	Iomax. 1.5A	1/4STEP	Constant Current PWM		SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P	UVLO	OVLO				
BD68888AEKV	PARA IN	Iomax. 1.5A	1/4STEP	Constant Current PWM		SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P	UVLO	OVLO				
BD63888MUV	CLK IN	Iomax. 1.2A	1/4STEP	Constant Current PWM		SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P	UVLO	OVLO				
BD68888MUV	PARA IN	Iomax. 1.65A	1/4STEP	Constant Current PWM		SMALL SIZE POWER PKG	ONE POWER	T.S.D.	O.C.P	UVLO	OVLO				

*1 BD6395FP, BD6393FP, 和BD6290EFV功能兼容。
*2 BD6395FP和BD6393FP引脚兼容。
*3 BD63620AEFV, BD63610AEFV, 和BD63801EFV功能兼容。
*4 BD63960EFV和BD63940EFV引脚兼容。
*5 BD68620EFV和BD68610EFV功能兼容。
*6 BD63960EFV和BD63940EFV功能兼容。

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V_{CC}			High Level	Low Level		
BD6395FP	16 to 28	1.5	3.0	2.0	0.8	1.2	HSOP25
BD6393FP	16 to 28	1.2	3.0	2.0	0.8	1.5	HSOP25
BD68620EFV	19 to 28	2.0	1.3	2.0	0.8	0.95	HTSSOP-B24
BD68610EFV	19 to 28	1.0	1.3	2.0	0.8	1.8	HTSSOP-B20
BD6290EFV	19 to 28	0.8	3.0	2.0	0.8	2.8	HTSSOP-B24
BD63960EFV	19 to 28	1.5	2.7	2.0	0.8	1.1	HTSSOP-B24
BD63940EFV	19 to 28	1.2	2.7	2.0	0.8	1.4	HTSSOP-B24
BD63621MUV	8 to 28	2.0	2.5	2.0	0.8	0.49	VQFN028V5050
BD63620AEFV	19 to 28	2.0	1.3	2.0	0.8	0.95	HTSSOP-B24
BD63610AEFV	19 to 28	0.8	1.3	2.0	0.8	1.8	HTSSOP-B20
BD63801EFV	19 to 28	0.8	2.7	2.0	0.8	2.8	HTSSOP-B24
BD60223FP	8 to 28	1.5	2.5	2.0	0.8	0.55	HSOP25
BD63888AEKV	8 to 28	1.5	5.0	2.0	0.8	1.0	HTQFP48V
BD68888AEKV	8 to 28	1.5	5.0	2.0	0.8	1.0	HTQFP48V
BD63888MUV	8 to 28	1.2	5.0	2.0	0.8	1.0	VQFN036V6060
BD68888MUV	8 to 28	1.65	5.0	2.0	0.8	1.0	VQFN036V6060

图标说明

CLK IN	控制信号输入 CLK-IN型	PARA IN	控制信号输入 PARALLEL-IN型	SPI	SPI BUS 接口	Iomax. 0.8A, Iomax. 1.0A, Iomax. 1.2A, Iomax. 1.35A, Iomax. 1.5A, Iomax. 1.65A, Iomax. 2.0A, Iomax. 2.5A, Iomax. 3.0A, Iomax. 4.0A	最大输出 电流
1/2STEP, 1/4STEP, 1/8STEP, 1/16STEP	STEP						
Constant Current PWM	恒流 PWM	Thin PKG	薄型 封装	FW/RW Switching	可以切换 正转和反转	SMALL SIZE POWER PKG	小尺寸 功率封装
HIGH POWER Package	大功率 封装	DECAY SW	SLOW/FAST/MIX 衰减转换功能	PIN COMPATIBLE	引脚与其他厂家 兼容轻松置换		

支持μ-step的36V耐压系列 步进电机驱动器

BD63860EFV CLK IN | Iomax. 2.5A | 1/8STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | SMALL SIZE POWER PKG | ONE POWER | T.S.D. | O.C.P. | UV LO | OVLO

BD63510AEFV CLK IN | Iomax. 1.0A | 1/16STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | SMALL SIZE POWER PKG | FUNC TION COMPATIBLE *1 | PIN COMPATIBLE | ONE POWER | T.S.D. | O.C.P. | UV LO | OVLO

BD63511EFV CLK IN | Iomax. 1.0A | 1/16STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | SMALL SIZE POWER PKG | FUNC TION COMPATIBLE *2 | PIN COMPATIBLE | ONE POWER | T.S.D. | O.C.P. | UV LO | OVLO

BD63520AEFV CLK IN | Iomax. 2.0A | 1/16STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | SMALL SIZE POWER PKG | FUNC TION COMPATIBLE *1 | PIN COMPATIBLE | ONE POWER | T.S.D. | O.C.P. | UV LO | OVLO

BD63521EFV CLK IN | Iomax. 2.0A | 1/16STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | SMALL SIZE POWER PKG | FUNC TION COMPATIBLE *2 | PIN COMPATIBLE | ONE POWER | T.S.D. | O.C.P. | UV LO | OVLO

BD63524AEFV CLK IN | Iomax. 2.5A | 1/8STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | SMALL SIZE POWER PKG | PIN COMPATIBLE | ONE POWER | T.S.D. | O.C.P. | UV LO | OVLO

BD63525AEFV CLK IN | Iomax. 2.5A | 1/16STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | SMALL SIZE POWER PKG | FUNC TION COMPATIBLE *1 | PIN COMPATIBLE | ONE POWER | T.S.D. | O.C.P. | UV LO | OVLO

BD63740FM CLK IN | Iomax. 4.0A | 1/16STEP | Constant Current PWM | FW/RW Switching | DECAY SW | HIGH POWER Package | ONE POWER | T.S.D. | O.C.P. | UV LO | OVLO

*1 BD63510AEFV, BD63520AEFV和BD63525AEFV功能兼容。
*2 BD63511AEFV和BD63521AEFV功能兼容。

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V_{CC}			High Level	Low Level		
BD63860EFV	16 to 28	2.5	4.0	2.0	0.8	0.8	HTSSOP-B28
BD63510AEFV	8 to 28	1.0	2.5	2.0	0.8	1.75	HTSSOP-B28
BD63511EFV	8 to 28	1.0	2.5	2.0	0.8	1.75	HTSSOP-B28
BD63520AEFV	8 to 28	2.0	2.5	2.0	0.8	0.65	HTSSOP-B28
BD63521EFV	8 to 28	2.0	2.5	2.0	0.8	0.65	HTSSOP-B28
BD63524AEFV	8 to 28	2.5	2.5	2.0	0.8	0.35	HTSSOP-B28
BD63525AEFV	8 to 28	2.5	2.5	2.0	0.8	0.35	HTSSOP-B28
BD63740FM	8 to 28	4.0	2.0	2.0	0.8	0.28	HSOP-M36

低电压系列 步进电机驱动器 用于微型和便携式打印机

BD6382EFV PARA IN | Iomax. 0.8A | 1/2STEP | Constant Current PWM | Thin PKG | SMALL SIZE POWER PKG | T.S.D. | O.C.P. | UV LO | 4kV | Short Protection | STANDBY 0μA | FUNC TION COMPATIBLE | PIN COMPATIBLE | -40℃ +85℃

BD6381EFV PARA IN | Iomax. 1.2A | 1/2STEP | Constant Current PWM | Thin PKG | SMALL SIZE POWER PKG | T.S.D. | O.C.P. | UV LO | 4kV | Short Protection | STANDBY 0μA | FUNC TION COMPATIBLE | PIN COMPATIBLE

BD6380EFV PARA IN | Iomax. 0.8A | 1/2STEP | Constant Current PWM | Thin PKG | SMALL SIZE POWER PKG | T.S.D. | O.C.P. | UV LO | 4kV | Short Protection | STANDBY 0μA | FUNC TION COMPATIBLE | PIN COMPATIBLE

Part No.	Supply Voltage (V)		Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V_{CC}	V_M			High Level	Low Level		
BD6382EFV	3.0 to 5.5	5.5 to 13.5	0.8	1.6	2.0	0.8	1.2	HTSSOP-B24
BD6381EFV	2.5 to 5.5	6.0 to 13.5	1.2	1.6	2.0	0.8	1.0	HTSSOP-B24
BD6380EFV	2.5 to 5.5	4.0 to 13.5	0.8	1.6	2.0	0.8	1.2	HTSSOP-B24

40V耐压系列 步进电机驱动器

BD63401EFV PARA IN | Iomax. 1.35A | 1/2STEP | Constant Current PWM | Thin PKG | SMALL SIZE POWER PKG | ONE POWER | T.S.D. | O.C.P. | UV LO | OVLO | 4kV

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V_{CC}			High Level	Low Level		
BD63401EFV	8 to 33	1.35	2.0	2.0	0.8	1.0	HTSSOP-B20

45V耐压系列 步进电机驱动器

BD6425EFV CLK IN | Iomax. 1.5A | 1/4STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | SMALL SIZE POWER PKG | ONE POWER | T.S.D. | O.C.P. | UV LO | 8kV | Short Protection

BD6423EFV CLK IN | Iomax. 1.0A | 1/4STEP | Constant Current PWM | FW/RW Switching | DECAY SW | Thin PKG | SMALL SIZE POWER PKG | ONE POWER | T.S.D. | O.C.P. | UV LO | 8kV | Short Protection

BD6422EFV PARA IN | Iomax. 1.0A | 1/4STEP | Constant Current PWM | DECAY SW | Thin PKG | SMALL SIZE POWER PKG | ONE POWER | T.S.D. | O.C.P. | UV LO | 8kV | Short Protection

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V_{CC}			High Level	Low Level		
BD6425EFV	19 to 42	1.5	2.0	2.0	0.8	1.1	HTSSOP-B28
BD6423EFV	19 to 42	1.0	2.0	2.0	0.8	2.0	HTSSOP-B24
BD6422EFV	19 to 42	1.0	2.0	2.0	0.8	2.0	HTSSOP-B24

36V耐压系列 单极步进电机驱动器

BM6343FS-Z CLK IN | SPI | Iomax. 3.0A | 1/4STEP | Constant Current PWM | FW/RW Switching | ONE POWER | T.S.D. | O.C.P. | UV LO | OVLO | Short Protection

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
	V_{CC}			High Level	Low Level		
BM6343FS-Z	8 to 28	3.0	5.0	2.0	0.8	0.10	SSOP-A54_36

O.C.P.	内置过电流保护电路
UV LO	内置低电压保护电路
OVLO	内置过电压保护电路
4kV 8kV	静电耐压
Short Protection	相邻引脚短路保护
ONE POWER	内置稳压器实现单电源系统
T.S.D.	内置温度保护电路
FUNC TION COMPATIBLE	功能兼容
STANDBY 0μA	待机电流0μA
-40℃ +85℃	工作温度范围
Protection	IC逆装保护

车载用 40V耐压 步进电机驱动器

BD63800MUF-C CLK IN · SPI · Iomax. 1.2A · 1/32STEP · Constant Current PWM · FW/RW Switching · ONE POWER · T.S.D. · O.C.P. · UV LO · OVLO · Short Protection

Part No.	Supply Voltage (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
	V_{CC}			High Level	Low Level				
BD63800MUF-C	6 to 28	1.21	3.5	2.0	0.8	0.75	VQFN32FBV050	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 "ComfySIL™ 功能安全类别" 的详情请参阅封二。

三相无刷电机驱动器

带速度控制的三相无刷电机预驱动器

BD6762FV SERVO · 120° SLOPE PWM · External FET NN · FG AMP. Built-IN · HYS AMP. Built-IN · T.S.D. · SHORT BRAKE · FW/RW Switching · Motor lock protection

BD63030EKV-C SERVO · 180° PWM · External FET NN · T.S.D. · FW/RW Switching · Motor lock protection · O.C.P. · O.V.P. · U.V.P.

Part No.	Max Voltage (V)	Supply Voltage (V)	Operating Temperature (°C)	Circuit Current (mA)	Input Threshold Voltage (V)		External FET Drive Voltage		PWM Frequency (kHz)	Package
					H Level	L Level	Upper (V)	Lower (V)		
BD6762FV	36	16 to 28	–25 to +75	17	2.2	0.8	V_{CC}+6.8	10.8	16	HTSSOP-B24

Part No.	Max Voltage (V)	Supply Voltage (V)	Operating Temperature (°C)	Circuit Current (mA)	Input Threshold Voltage (V)		External FET Drive Voltage V_{CC}=6.5V		PWM Frequency (kHz)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
					H Level	L Level	Upper (V)	Lower (V)				
BD63030EKV-C	50	6.5 to 18.0	–40 to +125	18	3.8	1.9	2×V_{CC}–1.0	5.5	20	HTQFP64AV	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 "ComfySIL™ 功能安全类别" 的详情请参阅封二。

三相无刷电机预驱动器

BD6761FS 180° PWM · External FET NN · FG AMP. Built-IN · HYS AMP. Built-IN · T.S.D. · SHORT BRAKE · FW/RW Switching

BD63001AMUV 120° PWM · External FET PN · T.S.D. · SHORT BRAKE · FW/RW Switching · Motor lock protection · O.V.P. · U.V.P.

BD63002AMUV 120° PWM · External FET NN · T.S.D. · SHORT BRAKE · FW/RW Switching · Motor lock protection · O.V.P. · U.V.P.

BM62300MUV 180° PWM · External FET NN · T.S.D. · SHORT BRAKE · FW/RW Switching · Motor lock protection · O.V.P. · U.V.P.

BD63003MUV 120° PWM · External FET NN · T.S.D. · SHORT BRAKE · FW/RW Switching · Motor lock protection · O.V.P. · U.V.P.

BD67891MUV External FET PN · T.S.D. · U.V.P.

BD16805FV-M 60V MAX. · 180° PWM · External FET NN · T.S.D. · FW/RW Switching · Motor lock protection · O.C.P. · O.V.P. · U.V.P.

BM64070MUV 100V MAX. · 180° PWM · External FET NN · T.S.D. · SHORT BRAKE · FW/RW Switching · Motor lock protection · O.C.P. · O.V.P. · U.V.P. · SENSOR LESS DRIVE

BM64300MUV 100V MAX. · 180° PWM · External FET NN · T.S.D. · SHORT BRAKE · FW/RW Switching · Motor lock protection · O.C.P. · O.V.P. · U.V.P.

Part No.	Max Voltage (V)	Supply Voltage (V)	Operating Temperature (°C)	Circuit Current (mA)	Input Threshold Voltage (V)		External FET Drive Voltage (V)		PWM Frequency (kHz)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
					H Level	L Level	Upper	Lower				
BD6761FS	36	16 to 28	–35 to +75	15.0	2.2	0.8	V_{CC}+6	10.5	15	SSOP-A32	–	–
BD63001AMUV	33	4.5 to 5.5/6 to 28	–40 to +85	2.5	2.0	0.8	V_{CC}–0.2	9.5	20	VQFN024V4040	–	–
BD63002AMUV	33	8.0 to 26.4	–40 to +85	2.5	2.0	0.8	V_{CC}+7	5.0	External IN	VQFN028V5050	–	–
BM62300MUV	33	8 to 28	–40 to +105	14	V_{VREG50}–1.2	0.8	V_G–0.1	0.1	40	VQFN032V5050	–	–
BD63003MUV	40	10.8 to 26.4	–40 to +85	4.5	2.0	0.8	V_{CC}+10*2	10*2	External IN	VQFN032V5050	–	–
BD67891MUV	45	20 to 40	–25 to +85	2.5	2.0	0.8	VMM–7.8	7.8	External IN	VQFN032V5050	–	–
BD16805FV-M	60	8 to 18	–40 to +110	15.2	3.0	1.0	2×V_{CC}–0.5	8.0	25	SSOP-B40	FSs	YES
BM64070MUV	100	28 to 77	–40 to +105	6.4	2.8	0.8	V_G–0.1	0.1	90	VQFN040V6060	–	–
BM64300MUV	100	28 to 63	–40 to +105	13	V_{VREG50}–1.2	0.8	V_G–0.1	0.1	40	VQFN040V6060	–	–

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 "ComfySIL™ 功能安全类别" 的详情请参阅封二。
*2 恒流驱动型

图标说明

CLK IN	控制信号输入CLK-IN型
SERVO	内置伺服电路
SPI	SPI BUS接口
Iomax. 1.2A	最大输出电流
36V MAX. 40V MAX. 60V MAX. 100V MAX.	耐压
120° SLOPE PWM 120° PWM 180° PWM	输出通电方式
1/32STEP	STEP
Constant Current PWM	恒流PWM
FW/RW Switching	可以切换正转和反转
External FET NN	外置输出段FET 上侧：Nch/下侧：Nch
External FET PN	外置输出段FET 上侧：Pch/下侧：Nch
DMOS	DMOS输出
FG AMP. Built-IN	内置FG放大器
HYS AMP. Built-IN	内置磁滞放大器
ONE POWER	内置稳压器实现单电源系统
T.S.D.	内置温度保护电路
SHORT BRAKE	内置短路制动
Motor lock protection	内置电机锁定保护电路
O.C.P.	内置过电流保护电路
O.V.P.	内置过电压保护电路
U.V.P.	内置输出低电压保护电路
UV LO	内置低电压保护电路
OVLO	内置过电压保护电路
Short Protection	相邻引脚短路保护

三相无刷电机驱动器

BD63005AMUV 120° PWM | DMOS | T.S.D. | SHORT BRAKE | FW/RW Switching | Motor lock protection | O.C.P. | O.V.P. | U.V.P.

BD63006MUV 120° PWM | DMOS | T.S.D. | SHORT BRAKE | FW/RW Switching | Motor lock protection | O.C.P. | O.V.P. | U.V.P.

BD63007MUV 120° PWM | DMOS | T.S.D. | SHORT BRAKE | FW/RW Switching | Motor lock protection | O.C.P. | O.V.P. | U.V.P.

BD63015EFV 36V MAX. | 180° PWM | DMOS | T.S.D. | Motor lock protection | O.C.P. | O.V.P. | U.V.P.

BD63035EFV-M 36V MAX. | 180° PWM | DMOS | T.S.D. | Motor lock protection | O.C.P. | O.V.P. | U.V.P.

BD16852EFV-C 40V MAX. | 120° PWM | DMOS | SENSOR LESS DRIVE | T.S.D. | Motor lock protection | O.C.P. | O.V.P. | U.V.P.

Part No.	Max Voltage (V)	Supply Voltage (V)	Output Current (A)	Operating Temperature (°C)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	PWM Frequency (kHz)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
						H Level	L Level					
BD63005AMUV	33	10 to 28	2	−25 to +85	4.4	2.0	0.8	0.17	External IN	VQFN040V6060	—	—
BD63006MUV	33	8 to 28	1.5	−40 to +85	4.4	2.0	0.8	0.8	External IN	VQFN024V4040	—	—
BD63007MUV	33	8 to 28	3	−25 to +85	4.4	2.0	0.8	0.17	External IN	VQFN040V6060	—	—
BD63015EFV	36	8 to 28	1.5	−40 to +105	8	2.0	0.8	0.6	External IN	HTSSOP-B20	—	—
BD63035EFV-M	36	8 to 28	1.5	−40 to +105	8	2.0	0.8	0.6	22.7	HTSSOP-B20	FSs	YES
BD16852EFV-C	40	5.5 to 18.0	3.2	−40 to +125	5	—	—	0.4	20	HTSSOP-B28	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。

风扇电机驱动器

5V单相全波风扇电机驱动器

BH6766FVM 5V IN | 300 mA CLASS | FG | SOFT S/W | HALL | T.S.D.

BD6965NUX 5V IN | 350 mA CLASS | FG | SOFT S/W | SPEED CONTROL | LOCK | START UP | T.S.D.

BU6909AGFT 5V IN | 300 mA CLASS | HALL Sensor | FG | SOFT S/W | SPEED CONTROL | LOCK Cin | START UP | T.S.D.

BU69090NUX 5V IN | 300 mA CLASS | HALL Sensor | FG | SOFT S/W | SPEED CONTROL | LOCK Cin | START UP | T.S.D.

Part No.	Supply Voltage (V)	I_O Max (mA)	Power Transistor	Output Saturation Voltage (V)	Speed Control	Hall Bias Voltage (V)	Lock Time Ratio	Package
BH6766FVM	2.0 to 6.0	630	CMOS	Upper and Lower 0.6 (I_O=250mA)	—	1.3	—	MSOP8
BD6965NUX	2.0 to 5.5	800	CMOS	Upper and Lower 0.4 (I_O=250mA)	Direct PWM	—	1 : 10	VSON008X2030
BU6909AGFT	1.8 to 5.5	800	CMOS	Upper and Lower 0.16 (I_O=200mA)	Direct PWM	Include Hall sensor	1 : 10	TSSOF6
BU69090NUX	1.8 to 5.5	800	CMOS	Upper and Lower 0.16 (I_O=200mA)	Direct PWM	Include Hall sensor	1 : 10	VSON008X2030

标准单相全波风扇电机驱动器

BD6981FVM 12V IN | 250 mA CLASS | FG | SOFT S/W | HALL | LOCK Cin | T.S.D.

BD6982FVM 12V IN | 250 mA CLASS | SOFT S/W | HALL | LOCK Cin | ALARM | T.S.D.

BD6967FVM 12V IN | 250 mA CLASS | FG | SOFT S/W | HALL | SPEED CONTROL | LOCK Cin | START UP | T.S.D.

BD6968FVM 12V IN | 250 mA CLASS | SOFT S/W | HALL | SPEED CONTROL | LOCK Cin | ALARM | START UP | T.S.D.

BD6962FVM 12V IN | 300 mA CLASS | FG | SOFT S/W | SPEED CONTROL | LOCK Cin | T.S.D.

BD6964FVM 12V IN | 300 mA CLASS | SOFT S/W | SPEED CONTROL | LOCK Cin | ALARM | T.S.D.

BD6961F 12V IN | 350 mA CLASS | FG | SOFT S/W | SPEED CONTROL | LOCK Cin | T.S.D.

BD6964F 12V IN | 350 mA CLASS | SOFT S/W | SPEED CONTROL | LOCK Cin | ALARM | T.S.D.

BD69830FV 24V IN | 350 mA CLASS | FG | HALL | SPEED CONTROL | LOCK | ALARM | START UP | T.S.D.

Part No.	Supply Voltage (V)	I_O Max (mA)	Power Transistor	Output Saturation Voltage (V)	Speed Control	Hall Bias Voltage (V)	Lock Time Ratio	Package
BD6981FVM	2.8 to 16.0	800	DMOS	Upper and Lower 0.45 (I_O=200mA)	—	1.2	1 : 6	MSOP8
BD6982FVM	2.8 to 16.0	800	DMOS	Upper and Lower 0.45 (I_O=200mA)	—	1.2	1 : 6	MSOP8
BD6967FVM	3.3 to 14.0	800	DMOS	Upper and Lower 0.45 (I_O=200mA)	DC/Direct PWM	1.2	1 : 10	MSOP10
BD6968FVM	3.3 to 14.0	800	DMOS	Upper and Lower 0.45 (I_O=200mA)	DC/Direct PWM	1.2	1 : 10	MSOP10
BD6962FVM	3.3 to 14.0	800	DMOS	Upper and Lower 0.4 (I_O=300mA)	Direct PWM	—	1 : 10	MSOP8
BD6964FVM	3.3 to 14.0	800	DMOS	Upper and Lower 0.4 (I_O=300mA)	Direct PWM	—	1 : 10	MSOP8
BD6961F	3.3 to 14.0	1,000	DMOS	Upper and Lower 0.4 (I_O=300mA)	Direct PWM	—	1 : 10	SOP8
BD6964F	3.3 to 14.0	1,000	DMOS	Upper and Lower 0.4 (I_O=300mA)	Direct PWM	—	1 : 10	SOP8
BD69830FV	6.0 to 28.0	900	DMOS	Upper and Lower 0.6 (I_O=200mA)	Direct PWM	1.2	1 : 30	SSOP-B14

5V IN / 12V IN / 24V IN	电源电压兼容
250 mA CLASS / 300 mA CLASS / 350 mA CLASS	稳定旋转时能够流向电机的电流估计值
HALL Sensor	内置霍尔元件
FG	RPM脉冲信号输出
HALL	内置霍尔元件用电源电压
SPEED CONTROL	可控制转速度
LOCK Cin	不需要电机锁定检测所需的外部电容器
LOCK	电机锁定检测功能
ALARM	锁定警报信号输出
START UP	低占空比状态下可以启动电机
SENSOR LESS DRIVE	无需霍尔传感器检测电机转子位置的驱动方式
SOFT S/W	有助于软开关、静音

高性能单相全波风扇电机驱动器

BD6971FV 12V IN | 350 mA CLASS | FG | SOFT S/W | HALL | SPEED CONTROL | LOCK | MIN. rpm | T.S.D. | IO LIMIT

BD6994FV 12V IN | 350 mA CLASS | FG | SOFT S/W | HALL | SPEED CONTROL | LOCK | ALARM | MIN. rpm | START UP | T.S.D.

BD6995FV 12V IN | 400 mA CLASS | FG | SOFT S/W | HALL | SPEED CONTROL | LOCK | ALARM | MIN. rpm | T.S.D. | IO LIMIT

BD61243FV 12V IN | 450 mA CLASS | FG | SOFT S/W | SPEED CONTROL | LOCK | MIN. rpm | START UP | T.S.D. | IO LIMIT

BD61245EFV 12V IN | 800 mA CLASS | FG | SOFT S/W | SPEED CONTROL | LOCK | MIN. rpm | START UP | T.S.D. | IO LIMIT | SOFT START

BD61248NUX 12V IN | 400 mA CLASS | Small PKG | FG | SOFT S/W | SPEED CONTROL | LOCK | START UP | T.S.D.

BD69730FV 12V IN | PRE DRIVER | FG | SOFT S/W | HALL | SPEED CONTROL | LOCK | MIN. rpm | T.S.D. | IO LIMIT | SOFT START

BD69740FV 12V IN | PRE DRIVER | SOFT S/W | HALL | SPEED CONTROL | LOCK | ALARM | MIN. rpm | T.S.D. | IO LIMIT | SOFT START

BD61250MUV 24V IN | PRE DRIVER | Small PKG | FG | SOFT S/W | SPEED CONTROL | LOCK | ALARM | MIN. rpm | START UP | T.S.D. | IO LIMIT | SOFT START

BD61251FV 12V IN | PRE DRIVER | FG | SOFT S/W | SPEED CONTROL | LOCK | START UP | T.S.D. | IO LIMIT | SOFT START

Part No.	Supply Voltage (V)	I_O Max (mA)	Power Transistor	Output Saturation Voltage (V)	Speed Control	Hall Bias Voltage (V)	Lock Time Ratio	Package
BD6971FV	3.5 to 17.0	1,000	DMOS	Upper and Lower 0.6 (I_O=200mA)	DC/PWM	1.3	1 : 10	SSOP-B14
BD6994FV	4.5 to 17.0	1,200	DMOS	Upper and Lower 0.6 (I_O=400mA)	DC/PWM	1.25	1 : 10	SSOP-B16
BD6995FV	4.3 to 17.0	1,200	DMOS	Upper and Lower 0.6 (I_O=400mA)	DC	1.25	1 : 10	SSOP-B16
BD61243FV	5.5 to 16.0	1,200	DMOS	Upper and Lower 0.4 (I_O=400mA)	DC/PWM	1.25	1 : 10	SSOP-B14
BD61245EFV	4.0 to 16.0	1,800	DMOS	Upper and Lower 0.2 (I_O=400mA)	DC/PWM	–	1 : 10	HTSSOP-B16
BD61248NUX	4.5 to 16.0	1,200	DMOS	Upper and Lower 0.2 (I_O=200mA)	PWM	–	1 : 10	VSON010X3030
BD69730FV	4.3 to 17.0	10	Pre-Driver	–	DC/PWM	1.26	1 : 20	SSOP-B16
BD69740FV	4.3 to 17.0	10	Pre-Driver	–	DC/PWM	1.26	1 : 20	SSOP-B16
BD61250MUV	4.5 to 36.0	10	Pre-Driver	–	DC/PWM	–	1 : 20	VQFN024V4040
BD61251FV	4.5 to 16.0	10	Pre-Driver	–	PWM	–	1 : 20	SSOP-B16

双相半波风扇电机驱动器

BA6406F 24V IN | PRE DRIVER | LOCK | ALARM

Part No.	Supply Voltage (V)	I_O Max (mA)	Power Transistor	Output Saturation Voltage (V)	Speed Control	Hall Bias Voltage (V)	Zenner Diode Clamp Voltage (V)	Output Clamp Voltage (V)	Lock Time Ratio	Package
BA6406F	4.0 to 28.0	70	Pre-Driver	–	–	–	–	–	1 : 4.5	SOP8

三相全波风扇电机驱动器

BD67173NUX 5V IN | 400 mA CLASS | Small PKG | SENSOR LESS DRIVE | PWM 150° | FG | T.S.D. | LOCK | SPEED CONTROL

BD6326ANUX 5V IN | 400 mA CLASS | Small PKG | SENSOR LESS DRIVE | PWM 180° | FG | T.S.D. | LOCK | SPEED CONTROL

BD63282EFV 12V IN | 400 mA CLASS | THREE HALL DRIVE | PWM 180° | FG | T.S.D. | LOCK | IO LIMIT | SPEED CONTROL | SOFT START

BD63242EFV 12V IN | 450 mA CLASS | SENSOR LESS DRIVE | PWM 180° | FG | T.S.D. | LOCK | IO LIMIT | SPEED CONTROL | MIN. rpm

BD63242FV 12V IN | 400 mA CLASS | SENSOR LESS DRIVE | PWM 180° | FG | T.S.D. | LOCK | IO LIMIT | SPEED CONTROL | MIN. rpm

BD63241FV 12V IN | 400 mA CLASS | ONE HALL DRIVE | PWM 180° | FG | T.S.D. | LOCK | IO LIMIT | SPEED CONTROL | SOFT START

BD63251MUV 12V IN | PRE DRIVER | Small PKG | ONE HALL DRIVE | PWM 180° | FG | T.S.D. | LOCK | IO LIMIT | SPEED CONTROL | SOFT START | MIN. rpm

Part No.	Supply Voltage (V)	I_O Max (mA)	Power Transistor	Output Saturation Voltage (V)	Speed Control	Hall Bias Voltage (V)	Lock Time Ratio	Package
BD67173NUX	2.2 to 5.5	700	CMOS	Upper and Lower 0.25 (I_O=250mA)	PWM	–	1 : 5	VSON010X3030
BD6326ANUX	2.2 to 5.5	700	CMOS	Upper and Lower 0.25 (I_O=250mA)	PWM	–	1 : 5	VSON010X3030
BD63282EFV	5.0 to 16.0	1,000	DMOS	Upper and Lower 0.3 (I_O=300mA)	DC/PWM	–	1 : 2, 1 : 5, 1 : 10	HTSSOP-B20
BD63242EFV	5.0 to 16.0	1,000	DMOS	Upper and Lower 0.3 (I_O=300mA)	DC/PWM	–	Setting of SOSC-pin	HTSSOP-B16
BD63242FV	5.0 to 16.0	1,000	DMOS	Upper and Lower 0.3 (I_O=300mA)	DC/PWM	–	Setting of SOSC-pin	SSOP-B16
BD63241FV	5.0 to 16.0	1,000	DMOS	Upper and Lower 0.24 (I_O=300mA)	PWM	1.25	1 : 5	SSOP-B16
BD63251MUV	5.5 to 15.0	10	Pre-Driver	–	PWM	1.25	1 : 10	VQFN024V4040

图标说明

5V IN 12V IN 24V IN	电源电压兼容
350 400 450 800 mA CLASS PRE DRIVER	稳定旋转时能够流向电机的电流估计值
Small PKG	小型表面安装封装
FG	RPM脉冲信号输出
SENSOR LESS DRIVE	无需霍尔传感器检测电机转子位置的驱动方式
ONE HALL DRIVE	驱动1个用于检测电机转子位置的霍尔传感器的方式
THREE HALL DRIVE	驱动3个用于检测电机转子位置的霍尔传感器的方式
SOFT S/W	有助于软开关、静音
PWM 150° PWM 180°	输出通电方式
HALL	内置霍尔元件用电源电压
SPEED CONTROL	可控制转速度

三相无刷风扇电机驱动器 家电用

BM6241FS 250V MAX Iomax. 2.0A T.S.D. UVLO O.C.P.
BM6242FS 600V MAX Iomax. 1.5A T.S.D. UVLO O.C.P.
BM6243FS 600V MAX Iomax. 2.5A T.S.D. UVLO O.C.P.
BM6244FS 250V MAX Iomax. 2.0A T.S.D. UVLO O.C.P. IO LIMIT LOCK C_{in} FG
BM6245FS 600V MAX Iomax. 1.5A T.S.D. UVLO O.C.P. IO LIMIT LOCK C_{in} FG
BM6246FS 600V MAX Iomax. 2.5A T.S.D. UVLO O.C.P. IO LIMIT LOCK C_{in} FG
BM6247FS 250V MAX Iomax. 2.0A T.S.D. UVLO O.C.P. IO LIMIT LOCK C_{in} FG
BM6248FS 600V MAX Iomax. 1.5A T.S.D. UVLO O.C.P. IO LIMIT LOCK C_{in} FG
BM6249FS 600V MAX Iomax. 2.5A T.S.D. UVLO O.C.P. IO LIMIT LOCK C_{in} FG
BM6258FS 600V MAX Iomax. 1.5A T.S.D. UVLO O.C.P. IO LIMIT LOCK C_{in} FG

Part No.	Control	Output Device	Rated Voltage (V)	Output Current (A)	Output ON Resistance (Ω)	Diode Forward Voltage (V)	FG Conversion Ratio	Package
BM6241FS	6 inputs	MOSFET	250	2.0	0.9	0.9	12:12	SSOP-A54_23
BM6242FS	6 inputs	MOSFET	600	1.5	2.7	1.1	12:12	SSOP-A54_23
BM6243FS	6 inputs	MOSFET	600	2.5	1.7	1.1	12:12	SSOP-A54_23
BM6244FS	120°	MOSFET	250	2.0	0.9	0.9	12:12	SSOP-A54_36A
BM6245FS	120°	MOSFET	600	1.5	2.7	1.1	12:12	SSOP-A54_36A
BM6246FS	120°	MOSFET	600	2.5	1.7	1.1	12:12	SSOP-A54_36A
BM6247FS	180° (Sinusoidal)	MOSFET	250	2.0	0.9	0.9	12:12	SSOP-A54_36A
BM6248FS	180° (Sinusoidal)	MOSFET	600	1.5	2.7	1.1	12:12	SSOP-A54_36A
BM6249FS	180° (Sinusoidal)	MOSFET	600	2.5	1.7	1.1	12:12	SSOP-A54_36A
BM6258FS	180° (Sinusoidal)	MOSFET	600	1.5	2.7	1.1	15:12	SSOP-A54_36A

三相无刷风扇电机控制器 家电用

Part No.	Supply Voltage (V)	Commutation Logic	Control Voltage Input (V)	Phase Control (deg)	FG Conversion Ratio	Package
BD62012BFS	10.0 to 18.0	150°	2.1 to 5.4	0 to +30	12 : 12	SSOP-A24
New **BD62017BFS**	10.0 to 18.0	180° (Sinusoidal)	2.1 to 5.4	0 to +40	15 : 12	SSOP-A24
BD62018BFS	10.0 to 18.0	180° (Sinusoidal)	2.1 to 5.4	0 to +40	12 : 12	SSOP-A24

脉冲率转换器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Input Frequency (kHz)	Conversion Ratio	Package
BU6821G	4.5 to 5.5	0.5	0.005 to 5	15 : 12	SSOP5
BU6823G	4.5 to 5.5	0.5	0.005 to 5	21 : 12	SSOP5

LOCK C_{in} 不需要电机锁定检测所需的外部电容器
LOCK 电机锁定检测功能
ALARM 锁定警报信号输出
MIN rpm 最小转动速度设定
START UP 低占空比状态下可以启动电机
T.S.D. 内置温度保护电路
IO LIMIT 可设定输出电流限制值
SOFT START 软启动功能
Di Built-IN 内置逆接连接器时防止IC破坏的二极管
250V MAX 600V MAX 耐压
Iomax. 1.5A Iomax. 2.0A Iomax. 2.5A 最大输出电流
UVLO 内置低电压保护电路
O.C.P. 内置过电流保护电路

打印机用驱动器

打印机用有刷电机驱动器

Part No.	Supply Voltage (V)	Output Current (A)	Output Current Peak (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
					H Level	L Level		
BD62210AEFV	8.0 to 28.0	1.0	1.5	2.5	2.0	0.8	1.9	HTSSOP-B28
BD62220AEFV	8.0 to 28.0	2.0	2.8	2.5	2.0	0.8	0.65	HTSSOP-B28
BD63130AFM	8.0 to 46.2	3.0	5.0	2.5	2.0	0.8	0.55	HSOP-M36
BD63150AFM	8.0 to 46.2	5.0	6.0	2.5	2.0	0.8	0.3	HSOP-M36

纸传送或运输用双极型 步进电机驱动器

还备有其它可用于打印机和工业设备的步进电机驱动器。

Part No.	Power Supply (V)	Output Current (A)	Circuit Current (mA)	Input Threshold Voltage (V)		Output ON Resistance (Ω)	Package
				High Level	Low Level		
BD63801EFV	19.0 to 28.0	0.8	2.7	2.0	0.8	2.8	HTSSOP-B24
BD68715EFV	19.0 to 28.0	1.5	2.0	2.0	0.8	0.95	HTSSOP-B28
BD63715AEFV	19.0 to 28.0	1.5	2.0	2.0	0.8	0.95	HTSSOP-B28

纸传送用三相无刷电机预驱动器 面向LBP、PPC

Part No.	V_{CC} (V)	Power Supply (V)	Operating Temperature (°C)	Circuit Current (mA)	Input Threshold Voltage (V)		External Threshold Voltage (V)		PWM Frequency (kHz)	Package
					H Level	L Level	Upper	Lower		
BD6761FS	36	16.0 to 28.0	−35 to +75	15.0	2.2	0.8	V_{CC}+6	10.5	15	SSOP-A32
BD6762FV	36	16.0 to 28.0	−25 to +75	17.0	2.2	0.8	V_{CC}+6.8	10.8	16	SSOP-B40

内置开关稳压器的系统电机驱动器(H桥＋SWREG 2ch)

Part No.	V_{CC} (V)	Motor Rated Output Current	H Bridge ch	SW REG1 Output Current Range (A)	SW REG2 Output Current Range (A)	Standby Current (µA) (Max)	Package
BD64547MUV	50	2.0 A/Phase	2	0 to 2.0	0 to 1.4	100	VQFN048V7070
BD64008MUV	50	2.0 A/Phase	1 (2ch parallel use)	0 to 2.0	0 to 1.4	100	VQFN048V7070

打印机用有刷电机驱动器：BD62210AEFV和BD62220AEFV引脚兼容。

相机用驱动器

相机用1ch/2ch镜头驱动器

Part No.	ch	Supply Voltage (V)	Driver Output Max Current (A)	Drive Method Examples of Actuator (Drived Motor, Driving System, and Output ON Resistance (Ω))						Turn on Time	Turn off Time (ns)	Control Frequency (kHz) (Max)	Package (mm)
					Cleaner	AF	Zoom	Iris	Shutter				
BD65492MUV	2	1.8 to 16.0	1.0	e.g.	–	STM (2ch) FULL ON 0.9	–	–	–	200ns (Including 80ns to Prevent from overlap current.)	80	500	VQFN024V4040 4.0×4.0, H=Max 1.0
BD6735FV	2	2.0 to 8.0	1.0	e.g.	–	–	–	STM (2ch) FULL ON 1.0	–	300ns (Including 90ns to Prevent from overlap current.)	100	100	SSOP-B20 6.5×6.4, H=Max 1.25
BD6376GUL	1	2.0 to 9.0	1.0	e.g.	–	–	DCM (1ch) FULL ON 0.45	–	–	200ns (Including 80ns to Prevent from overlap current.)	60	200	VCSP50L1 1.6×1.6, H=Max 0.55
BD65491FV	1	1.8 to 16.0	1.2 Peak 4.0	e.g.	–	–	–	–	Plunger (1ch) FULL ON 0.35	150ns (Including 80ns to Prevent from overlap current.)	50	500	SSOP-B16 6.5×5.0, H=Max 1.25
BD6736FV	1	2.0 to 9.0	1.0 Peak 3.2	e.g.	–	–	–	–	Plunger (1ch) FULL ON 0.35	1000ns (Including 800ns to Prevent from overlap current.)	100	100	SSOP-B20 6.5×6.4, H=Max 1.25
BD65499MUV	1	4.0 to 27.0	0.5 Peak 2.0	e.g.	Piezo (1ch) FULL ON 0.6	–	–	–	–	150ns (Including 80ns to Prevent from overlap current.)	50	300	VQFN028V5050 5.0×5.0, H=Max 1.0
BD65494MUV	1	2.0 to 9.0	1.0 Peak 2.5	e.g.	–	–	–	–	Plunger (1ch) FULL ON 0.55	200ns (Including 80ns to Prevent from overlap current.)	60	200	VQFN016V3030 3.0×3.0, H=Max 1.0
BD65496MUV	1	1.8 to 16.0	1.2 Peak 5.0	e.g.	–	–	–	–	Plunger (1ch) FULL ON 0.35	150ns (Including 80ns to Prevent from overlap current.)	50	500	VQFN024V4040 4.0×4.0, H=Max 1.0

STM：步进电机, DCM：DC 电机（“ Drive method examples of actuator ”为代表例，可研讨其他使用方法。）

相机用支持μ-step的系统镜头驱动器

Part No.	Supply Voltage (V)	Driver Output Max Current (A)	Drive Method Examples of Actuator (Drived Motor, Driving System, and Output ON Resistance (Ω))						Input I/F	μ-step Resolution	Package (mm)
				AF	Zoom	Iris	Shutter	Others			
BU24020GU	2.7 to 3.6 (Logic) 2.7 to 5.5 (Driver)	0.5	e.g. 1	STM (1, 2ch) μ-step (class-D) 1.5	STM (3, 4ch) μ-step (class-D) 1.5	–	–	–	3-wire serial	1024	VCSP85H2 2.6×2.6, H=Max 1.0
			e.g. 2		DCM (3ch) FULL ON (PWM) 1.5	VCM (4ch) FULL ON (PWM) 1.5	–	–			
BU24033GW	1.62 to 3.6 (Io) 2.7 to 3.6 (Logic) 2.7 to 5.5 (Driver)	0.5/0.6	e.g. 1	STM (1, 2ch) μ-step (class-D) 1.5	STM (3, 4ch) μ-step (class-D) 1.5	VCM (5ch) FULL ON (PWM) 1.0	VCM (6ch) constant current 1.0	–	3-wire serial	1024	UCSP75M3 3.0×3.0, H=Max 0.85
			e.g. 2		DCM (5ch) FULL ON (PWM+Speed control) 1.0	VCM (3ch) FULL ON (PWM) 1.5		DCM (4ch) FULL ON (PWM) 1.5			
BU24035GW	2.7 to 3.6 (Logic) 2.7 to 5.5 (Driver)	0.5/0.6	e.g. 1	STM (1, 2ch) μ-step (class-D) 1.5	DCM (5ch) FULL ON (PWM+Speed control) 1.0	STM (3, 4ch) μ-step (class-D) 1.5	VCM (6ch) constant current 1.0	–	3-wire serial	1024	UCSP75M3 3.1×3.1, H=Max 0.85
			e.g. 2		DCM (3ch) FULL ON (PWM+Speed control) 1.5	VCM (5ch) FULL ON (PWM)/ constant current 1.0		VCM (4ch) FULL ON (PWM) 1.5			
BU24036MWV	2.7 to 3.6 (Logic) 2.7 to 5.5 (Driver)	0.5/0.6	e.g. 1	STM (1, 2ch) μ-step (class-D) 2.0	DCM (5ch) FULL ON (PWM+Speed control) 1.0	STM (3, 4ch) μ-step (class-D) 1.5	VCM (6ch) constant current 1.0	–	3-wire serial	1024	UQFN040V5050 5.0×5.0, H=Max 1.0
			e.g. 2		DCM (3ch) FULL ON (PWM+Speed control) 1.5	VCM (5ch) FULL ON (PWM)/ constant current 1.0		VCM (4ch) FULL ON (PWM) 1.5			

STM : 步进电机, DCM : DC 电机，VCM : 音圈电机 (“ Drive method examples of actuator ”为代表例，可研讨其他使用方法。)

便携式相机模块用驱动器

单向型音圈电机用两线串行(I^2C-compatible)接口镜头驱动器

Part No.	Supply Voltage (V)	Applications	ch	Drive System	Driver Output Max Current (mA)	Driver Output Low Voltage (V)	Input I/F	Ringing Compensation	Temperature Protection	Back side coating	Package (mm)
BU64292GWZ	2.5 to 3.6	Drive AF using voice coil motor	0.25	Constant current (±5%)	125	0.28 (V_{DD}=3V, I_O=100mA)	I^2C Fm+ compatible	ISRC	✓	without	UCSP25L1 0.68×1.08, H=Max 0.30
BU64982GWZ	2.5 to 3.6	Drive AF using voice coil motor	0.25	Constant current (±5%)	125	0.28 (V_{DD}=3V, I_O=100mA)	I^2C Fm+ compatible	ISRC	✓	with	UCSP30L1A 0.68×1.08, H=Max 0.33

双向型音圈电机用两线串行(I^2C-Compatible)接口镜头驱动器

Part No.	Supply Voltage (V)	Applications	ch	Drive System	Driver Output Max Current (A)	Driver Output ON Resistance (Ω)	Input I/F	Ringing Compensation	Temperature Protection	Back side coating	Package (mm)
BU64253GWZ	2.5 to 4.5	Drive AF using voice coil motor	1	Constant current (±5%)	±100	3.2 (V_{DD}=3V)	I^2C Fm+ compatible	ISRC	✓	with	UCSP30L1A 0.72×1.13, H=Max 0.33

压电执行机构用两线串行(I^2C-Compatible)接口镜头驱动器

Part No.	Supply Voltage (V)	Applications		ch	Drive System	Driver Output Max Current (mA)	Driver Output ON Resistance (Ω)	Input I/F	Base Clock	Temperature Protection	Power Save Function	Back side coating	Package (mm)
BU64562GWZ	2.3 to 4.8	e.g. 1	Drive AF using piezo actuator	1	FULL ON	500	1.4 (V_{CC}=3V)	I^2C Fm compatible	Built-in 15MHz	✓	✓	without	UCSP30L1 1.90×0.77, H=Max 0.33
		e.g. 2	Drive Zoom using piezo actuator										

步进电机用并行接口镜头驱动器

Part No.	Supply Voltage (V)	Applications		ch	Drive System	Driver Output Max Current (mA)	Driver Output ON Resistance (Ω)	Input I/F	Input Mode Selection Terminal	Built-In Wave Sloping Comparator	Temperature Protection	Power Save Function	Back side coating	Package (mm)
BD6360GUL	2.3 to 5.5	e.g. 1	Drive AF using piezo actuator	2	FULL ON	500	1.0 (V_{CC}=3V, I_O=0.4A)	Parallel	✓	✓	✓	✓	with	VCSP50L2 2.1×2.1, H=Max 0.55
		e.g. 2	Drive Zoom using piezo actuator											

LED驱动器

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LED驱动器

升压LED驱动器

外置FET 白色LED驱动器

Part No.	Supply Voltage (V)	Number of LEDs	Output Voltage (V)	Switching Frequency (MHz)	Primary Brightness Control Method	Control Interface	Package (mm)
BD6583MUV-A	2.7 to 22.0	Max 72 12series×6strings in parallel (V_F restrictions exist)	Max 43.0	1	PWM signal from the PWMPOW/PWMDRV terminal Resistance switching at the ISET terminal	Pin logic setting	VQFN024V4040
BD9486F	9 to 18	Max About 120 120series×1string in parallel	Max About 400	0.05 to 0.80	PWM signal Analog signal	Pin logic setting	SOP16
BD9411F	9 to 35	Max About 120 120series×1string in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SOP18
BD9413F	9 to 35	Max About 120 120series×1string in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SOP18
BD9483F	11 to 35	Max About 240 120series×2strings in parallel	Max About 400	0.05 to 0.80	PWM signal Analog signal	Pin logic setting	SOP24
BD9483FV	11 to 35	Max About 240 120series×2strings in parallel	Max About 400	0.05 to 0.80	PWM signal Analog signal	Pin logic setting	SSOP-B24
BD9416FS	9 to 35	Max About 240 120series×2strings in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SSOP-A24
BD9479FV	9 to 35	Max About 96 12series×8strings in parallel	Max About 40	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	SSOP-B40
BD9408FV	9 to 35	Max About 120 120series×1string in parallel	Max About 400	0.05 to 2.00	PWM signal Analog signal	Pin logic setting	SSOP-B14
BD9409F	11.5 to 35.0	Max About 120 120series×1string in parallel	Max About 400	0.05 to 1.00	PWM signal Analog signal	Pin logic setting	SOP16
BD9420F	9 to 35	Max 72 12series×6strings in parallel (V_F restrictions exist)	Max About 40	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	SOP28

内置FET 白色LED驱动器

Part No.	Supply Voltage (V)	Number of LEDs	Output Voltage (V)	Switching Frequency (MHz)	Primary Brightness Control Method	Control Interface	Package (mm)
BD60A00NUX	2.7 to 5.5	Max 10 10series×1string in parallel	Max 40.0	0.6	PWM signal Resistance switching at the ISET terminal	Pin logic setting	VSON008X2030
BD60A60NUX	2.7 to 5.5	Max 6 6series×1string in parallel	Max 26.0	0.6	PWM signal Resistance switching at the ISET terminal	Pin logic setting	VSON008X2030
BD65B60GWL	2.7 to 5.5	Max 16 8series×2strings in parallel	Max 28.5	1.1/0.6	I^2C BUS PWM signal Resistance switching at the ISET terminal	I^2C BUS + PWM	UCSP50L1 1.4x1.8, H=Max 0.55
BD6586MUV	2.7 to 5.5	Max 24 6series×4strings in parallel	Max 24.0	1	PWM signal Resistance switching at the ISET terminal	Pin logic setting	VQFN024V4040
BD65D00MUV	6 to 27	Max 40 10series×4strings in parallel	Internal FET Max 40.0 External FET Max 80.0	0.6 to 1.6	PWM signal Resistance switching at the ISET terminal Analog voltage control	Pin logic setting	VQFN028V5050
BD6142AMUV	4.2 to 27	Max 80 10series×8strings in parallel	Max 41.0	0.6 to 1.6	PWM signal Resistance switching at the ISET terminal Analog voltage control	Pin logic setting	VQFN024V4040
BD9394EFV	9 to 35	Max 72 18series×4strings in parallel	Max 60.0	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	HTSSOP-B24
BD93942F	9 to 35	Max 72 18series×4strings in parallel	Max 60.0	0.1 to 0.8	PWM signal Analog signal	Pin logic setting	SOP16
BD9470AFM	9 to 35	Max 72 18series×4strings in parallel	Max 40.0	0.1 to 0.5	PWM signal	Pin logic setting	HSOP-M28
BD9397EFV	9 to 35	Max 84 14series×6strings in parallel	Max 50.0	0.10 to 1.25	PWM signal Analog signal	Pin logic setting	HTSSOP-B40
BD9422EFV	9 to 35	Max 84 14series×6strings in parallel	Max 60.0	0.10 to 1.25	PWM signal Analog signal	Pin logic setting I^2C	HTSSOP-B40

内置FET 同步整流方式 白色LED驱动器

Part No.	Supply Voltage (V)	Number of LEDs	Output Voltage (V)	Switching Frequency (MHz)	Primary Brightness Control Method	Control Interface	Package (mm)
BD6071HFN	2.7 to 5.5	Max 3 3series×1string in parallel	Max 14.0	1	PWM signal from EN terminal	—	HSON8

LED相机闪光灯驱动器

Part No.	Supply Voltage (V)	Number of LED	Output Voltage (V)	Output Current	Switching Frequency (MHz)	Control Interface	Package (mm)
BD7757MWX	2.7 to 5.0	Max 2 1 to 2series×1string in parallel (V_F restrictions exist) (large current LED)	Max 5.1	0 to 1.5A	2	UPIC[*2]	USON014X3020

LCD背光用LED驱动器

	Part No.	Power Supply (V)	Boost FET	ch	Output Voltage (V)	Output Current (mA)	Switching Frequency (MHz)	PWM Dimming Ratio	Operating Temperature (℃)	Package	ComfySIL™ Functional Safety[*1]	Automotive Grade AEC-Q100
	BD83A04EFV-M	4.5 to 48.0	Internal	4	Max 50	Max 120/ch	0.2 to 2.42	20,000 : 1@100Hz	−40 to +125	HTSSOP-B24	FSs	YES
New	**BD83A24MUF-M**	4.5 to 48.0	Internal	4	Max 50	Max 120/ch	0.2 to 2.42	20,000 : 1@100Hz	−40 to +125	VQFN24FV4040	FSs	YES
New	**BD83A14EFV-M**	4.5 to 48.0	External	4	Max 50	Max 150/ch	0.2 to 2.42	20,000 : 1@100Hz	−40 to +125	HTSSOP-B24	FSs	YES
New	**BD83A14MUF-M**	4.5 to 48.0	External	4	Max 50	Max 150/ch	0.2 to 2.42	20,000 : 1@100Hz	−40 to +125	VQFN24FV4040	FSs	YES
Nano	**BD82A26MUF-M**	3.0 to 48.0	External	6	Max 50	Max 150/ch	0.2 to 2.42	20,000 : 1@100Hz	−40 to +125	VQFN32FBV050	FSs	YES

*1 “ComfySIL™ 功能安全类别”的详情请参阅封二。

*2 UPIC: Uni-Port Interface Control

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车载灯用LED驱动器

降压LED驱动器

Part No.	Supply Voltage (V)	Application	ch	Output Voltage (V)	Output Current (A)	Communication Control	Oscillation Frequency (kHz)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD18395EFV-M	4.5 to 70.0	High/Low Beam, DRL/Position, Turn, Fog	1	Max 70	2	Standalone	0.1 to 1.0	HTSSOP-B20	FSs	YES
New **BD18397EUV-M**	5 to 65	High/Low Beam, DRL/Position, Turn, Fog	2	Max 60	Total 2.7 Max 2.0/ch	SPI	0.2 to 2.25	HTSSOP-C48	FSp	YES
New **BD18397RUV-M**		High/Low Beam, DRL/Position, Turn, Fog	2	Max 60	Total 3.2 Max 2.0/ch	SPI	0.2 to 2.25	HTSSOP-C48R	FSp	YES
New **BD18398EUV-M**		High/Low Beam, DRL/Position, Turn, Fog	3	Max 60	Total 2.7 Max 2.0/ch	SPI	0.2 to 2.25	HTSSOP-C48	FSp	YES
New **BD18398RUV-M**		High/Low Beam, DRL/Position, Turn, Fog	3	Max 60	Total 4.8 Max 2.0/ch	SPI	0.2 to 2.25	HTSSOP-C48R	FSp	YES

升压LED驱动器

Part No.	Supply Voltage (V)	Application	ch	Output Voltage (V)	Output Current	Dimmer Mode	Operating Temperature (˚C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD18351EFV-M	4.5 to 65.0	High/Low Beam, DRL/Position, Turn, Fog	1	Max 65	Depend on Extra parts	PWM/DC	−40 to +125	HTSSOP-B24	FSs	YES
BD18353EFV-M	5 to 65					PWM/DC 1, 2		HTSSOP-B20	FSs	YES
BD18353MUF-M								VQFN20FV3535	FSs	YES

升降压LED驱动器

Part No.	Supply Voltage (V)	Application	ch	Output Voltage (V)	Output Current	Dimmer Mode	Operating Temperature (˚C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD8381AEFV-M	5 to 30	High/Low Beam/ DRL	1	Max 50	Depend on Extra parts	PWM/DC	−40 to +125	HTSSOP-B28	FSs	YES

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*1 “ComfySIL™ 功能安全类别” 的详情请参阅封二。

降压LED驱动器

DC-DC转换器型 降压型LED驱动器

Part No.	Supply Voltage (V)	Switching Terminal Voltage (V)	Ron (Ω)	Operating Frequency (kHz)	Over-Current Protection	Package
BM531Q11	9 to 35	250	0.93 (Typ)	Max 440	✓	DIP7AK
BD94062F	10.5 to 35.0	–	–	Max 800	✓	SOP16

PFC直流谐振型 大屏幕用白色LED驱动器

Part No.	Supply Voltage (V)	Drive Method	Oscillation Frequency Variable (kHz)	Primary Brightness Control Method	Control Interface	Package
BD92111F	8 to 18	Half Bridge	30 to 200	PWM signal	Pin logic setting	SOP18

升降压LED驱动器

LCD背光用LED驱动器

Part No.	Power Supply (V)	Boost FET	ch	Output Voltage (V)	Output Current (mA)	Switching Frequency (MHz)	PWM Dimming Ratio	Operating Temperature (˚C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD81A24EFV-M	4.5 to 35.0	Internal	4	Max 40	Max 120/ch	0.2 to 2.2	10,000 : 1@100Hz	−40 to +125	HTSSOP-B28	FSs	YES
BD81A24MUV-M								−40 to +125	VQFN28SV5050	FSs	YES
BD81A24MUF-M								−40 to +125	VQFN28FV5050	FSs	YES
Nano **BD82A16MUF-M**	3.0 to 48.0	External	6	Max 50	Max 150/ch	0.2 to 2.42	20,000 : 1@100Hz	−40 to +125	VQFN32FBV050	FSs	YES
BD81A44EFV-M	4.5 to 35.0		4	Max 40	Max 120/ch	0.2 to 2.2	10,000 : 1@100Hz	−40 to +125	HTSSOP-B28	FSs	YES
BD81A44MUV-M								−40 to +125	VQFN28SV5050	FSs	YES
BD81A74EFV-M								−40 to +125	HTSSOP-B28	FSs	YES
BD81A74MUV-M								−40 to +125	VQFN28SV5050	FSs	YES
BD81A76EFV-M			6					−40 to +125	HTSSOP-B30	FSs	YES

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照明用LED驱动器

LED照明用AC-DC控制IC

Part No.	Supply Voltage (V)	Input AC Voltage (Vac)	Built-in PFC Function	Built-in MOSFET	LED Average Current (mA)	Switching Frequency (kHz)	Package
BM520Q15F	8.9 to 26.0	80 to 275	–	✓	up to 200	20 to 200	SOP8
BM521Q25F	8.9 to 25.0	80 to 275	✓	✓	up to 200	20 to 300	SOP8
BD521GOFJ	8.9 to 25.0	80 to 275	✓	–	–	20 to 300	SOP-J8

无需电感(电荷泵)LED驱动器

白色LED驱动器

Part No.	Supply Voltage (V)	No. of LEDs	Charge Pump Step-up Circuit			Primary Brightness Control Method	Control Interface	Package
			Output Voltage (V)	Output Current (mA)	Pump Frequency			
BD1604MUV	2.7 to 5.5	1 to 4	Max 4.5	120	1MHz	PWM control via EN terminal Resistance switching at ISET terminal	Pin logic setting	VQFN016V3030
BD2606MVV		1 to 6	Max 4.7	120	250kHz/1kHz	Built-in 64-step current DAC (0.5 to 32.0mA)	I^2C BUS	SQFN016V4040

CIS用LED驱动器

CIS方式传感器用3ch线性LED驱动器

Part No.	Supply Voltage (V)	ch	Output Voltage (V)	Output Current (mA)	Current Control	Operating Temperature (℃)	Package
New **BD2801MUV**	3.3	3	6.6	Max 100	8-step	0 to +70	VQFN016V3030

时序转向灯专用LED Bypass开关(矩阵LED控制器)

时序亮灯控制

Part No.	Supply Voltage (V)	ch	Bypass Switch ON Resistance (mΩ)	Max Current (A)	Maximum Channel Voltage	Maximum LED String Voltage (V)	Maximum Number of IC Serial Connections	Lighting Mode	Operating Temperature (℃)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD18362EFV-M	5.5 to 60.0	8	230	1	9	48	2	Sequential/ Hazard	−40 to +125	HTSSOP-B28	FSs	YES
BD18364EFV-M	5.5 to 45.0	8	300	0.8	13.5	depend on VIN voltage	1	Sequential/ Hazard/Animation	−40 to +125	HTSSOP-B30	FSs	YES

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恒流/串入并出LED驱动器

并行输出 LED驱动器

Part No.	Supply Voltage (V)	Number of LEDs	Constant Current Driver				Control Interface	Package
			Max Current Setting Method	Max Current	Channel-to-Channel Matching	Brightness Control		
BD1754HFN	2.7 to 5.5	1 to 4 (Parallel Connection)	Resistance change at ISET terminal	32mA (at an ISET resistance of 120kΩ)	Max 3% (at 1V LED pin voltage)	Built-in 64-step current DAC	UPIC*2	HSON8
BD2802GU		6 (RGB 2ch)	Resistance change at ISET terminal	30.48mA (at an ISET resistance of 120kΩ)	Max 10% (at 1V LED pin voltage)	Built-in 128-step current DAC	I^2C BUS	VCSP85H2
BD2812GU		6 (RGB 2ch)	Resistance change at ISET terminal	30.48mA (at an ISET resistance of 120kΩ)	Max 10% (at 1V LED pin voltage)	Built-in 128-step current DAC/ Inductorless (Charge Pump)	I^2C BUS	VCSP85H3

并行输出 车载用LED驱动器

Part No.	Supply Voltage (V)	Output Voltage (V)	Number of Output (ch)	Output Method	Max LED Current	Each Output Format	Other	Control Method	Max Clock Frequency	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
Nano **BD18330EFV-M**	4.5 to 40.0	40	24	Constant Current	125mA/ch	8bit PWM Dimming Function and 8bit Local DC Dimming Function	4bit Delay Function/ Built-in DC-DC Control Function	UART	1Mbps	HTSSOP-B54	FSs	YES
Nano **BD18332EUV-M**		40	24	Constant Current	125mA/ch	8bit PWM Dimming Function and 8bit Local DC Dimming Function	4bit Delay Function/ Built-in Feedback Output Function for DC-DC Control	UART	1Mbps	HTSSOP-C48	FSs	YES
Nano **BD18333EUV-M**		40	24	Constant Current	125mA/ch	8bit PWM Dimming Function and 8bit Local DC Dimming Function	4bit Delay Function	UART	1Mbps	HTSSOP-C48	FSp	YES
New **BD94130EFV-M**	3.0 to 5.5	20	24	Constant Current	80mA/ch	4/6/8-line Switch Controllers	Built-in 4096-step PWM controll for all channels	SPI	20MHz	HTSSOP-B54	FSs	YES
New **BD94130MUF-M**		20	24	Constant Current	80mA/ch	4/6/8-line Switch Controllers	Built-in 4096-step PWM controll for all channels	SPI	20MHz	VQFN56FCV080	FSs	YES
BD12801MUF-M		20	16	Constant Current	130mA/ch	Built-in 256-step current DAC	Built-in 8192-step PWM controll for all channels	SPI	5MHz	VQFN48FAV070	FSs	YES
BD2808MUV-M		20	RGB×8 (24ch)	Constant Current	50mA/ch	Built-in 64-step current DAC for RGB	Built-in 256-step PWM control for all channels	2-Wire Serial	1MHz	VQFN48MCV070	FSs	YES
BD83812EFV-M		35	12	Open Drain	50mA/ch	ON/OFF	–	SPI	1.25MHz	HTSSOP-B20	FSs	YES
BD83816EFV-M		35	16	Open Drain	50mA/ch	ON/OFF	–	SPI	1.25MHz	HTSSOP-B24	FSs	YES
BD8388FV-M		40	8	Open Drain	50mA/ch	ON/OFF	–	SPI	1.25MHz	SSOP-B16	FSs	YES
BD8389FV-M		40	12	Open Drain	50mA/ch	ON/OFF	–	SPI	1.25MHz	SSOP-B20	FSs	YES

点阵LED驱动器

Part No.	Supply Voltage (V)	LED Matrix	Max LED Current	Built-in Pattern		Matrix Data RAM	Mobile Light	PWM Dimming (step)	Current Setting (step)	Interface	Max Clock Frequency	Package (mm)
				Scroll	Slope							
BD26503GUL	2.7 to 5.5	7×17 119dots	30mA/Line	✓	✓	2pages	–	64	16	I^2C BUS/SPI (2 address/–)	400kHz/13MHz	VCSP50L3 3.6×3.6, H=Max 0.55
BD26503KS2		7×17 119dots	30mA/Line	✓	✓	2pages	–	64	16	I^2C BUS/SPI (2 address/–)	400kHz/13MHz	SQFP-T52
BU16501KS2		8×16 128dots	42.5mA/Line	–	–	1page	–	64	16	I^2C BUS/SPI (2 address/–)	400kHz/13MHz	SQFP-T52

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*2 UPIC: Uni-Port Interface Control

Nano 标记为采用Nano Pulse Control™ 技术、Nano Energy™ 技术或Nano Cap™ 技术的产品。Nano是实现小型化和节能的罗姆创新型电源技术。
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恒流/串入并出LED驱动器

车载用LED源极驱动器

Part No.	Supply Voltage (V)	Application	ch	Driver	Maximum Input Voltage (V)	Maximum Output Current (mA)	Dimmer Mode	Accuracy of Current (%)	ISINK Terminal LED Open Detection Voltage (V)	Disable LED Open Detection Voltage (V)	Energy Sharing Control Voltage (Typ) (V)	Operating Temperature (˚C)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD18340FV-M	4.5 to 19.0	DRL/Position/ FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	PWM/ DC (±5%)	±3 (T_a=25 to 125°C)	–	variable	–	−40 to +125	SSOP-B16	FSs	YES
BD18341FV-M	4.5 to 19.0	DRL/Position/ FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	PWM/ DC (±12%)	±3 (T_a=25 to 125°C)	–	variable	–	−40 to +125	SSOP-B16	FSs	YES
BD18342FV-M	4.5 to 19.0	DRL/Position/ FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	PWM	±3 (T_a=25 to 125°C)	–	variable	–	−40 to +125	SSOP-B16	FSs	YES
BD18343FV-M	4.5 to 19.0	DRL/Position/ FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	External PWM signal	±3 (T_a=25 to 125°C)	–	variable	–	−40 to +125	SSOP-B16	FSs	YES
BD18345EFV-M	4.5 to 19.0	DRL/Position/ FOG/Turn/Rear	1 to 10	Controller (External PNP)	70	Total 1,000	PWM/DC	±3 (T_a=25 to 125°C)	–	variable	–	−40 to +125	HTSSOP-B20	FSs	YES
BD18326NUF-M	5.5 to 20.0	DRL/Position/ FOG/Turn/Rear	1	Internal	40	400mA (DC) 600mA (ON Duty: 50%)	PWM/DC	±10 (Output current: 100 to 240mA) (T_j=−40 to +150°C) ±5 (Output current: 240 to 600mA) (T_j=−40 to +150°C)	5.8	11.0	–	−40 to +150	VSON10FV3030	FSs	YES
BD18336NUF-M	5.5 to 20.0	DRL/Position/ FOG/Turn/Rear	1	Internal	40	400mA (DC) 600mA (ON Duty: 50%)	PWM/DC	±10 (Output current: 100 to 240mA) (T_j=−40 to +150°C) ±5 (Output current: 240 to 600mA) (T_j=−40 to +150°C)	4.1	11.0	–	−40 to +150	VSON10FV3030	FSs	YES
BD18337EFV-M	5.5 to 20.0	DRL/Position/ FOG/Turn/Rear	4	Internal	40	150mA/ ch	PWM	±10 (Output current: 50 to 100mA) (T_a=−40 to +125°C) ±5 (Output current: 100 to 150mA) (T_a=−40 to +125°C)	–	11.0	2.0	−40 to +125	HTSSOP-B16	FSs	YES
BD18347AEFV-M	5.5 to 20.0	DRL/Position/ FOG/Turn/Rear	4	Internal	40	150mA/ ch	PWM	±10 (Output current: 50 to 100mA) (T_a=−40 to +125°C) ±5 (Output current: 100 to 150mA) (T_a=−40 to +125°C)	–	7.65	1.5	−40 to +125	HTSSOP-B16	FSs	YES
BD18347EFV-M	5.5 to 20.0	DRL/Position/ FOG/Turn/Rear	4	Internal	40	150mA/ ch	PWM	±10 (Output current: 50 to 100mA) (T_a=−40 to +125°C) ±5 (Output current: 100 to 150mA) (T_a=−40 to +125°C)	–	7.65	2.0	−40 to +125	HTSSOP-B16	FSs	YES
BD18327EFV-M	6.0 to 18.0	2 wheeler Turn Indicator	1	Internal	50	1.5A	PWM	Load Switch Controller	–	–	–	−40 to +125	HTSSOP-B20	FSs	YES
New **BD8372UEFJ-M**	5.5 to 40.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	200	High Current/ Low Current	±3 (T_a=25°C)	–	–	–	−40 to +125	HTSOP-J8	FSs	YES
BD8372HFP-M	5.5 to 40.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	200	High Current/ Low Current	±3 (T_a=25°C)	–	–	–	−40 to +125	HRP7	FSs	YES
BD8374EFJ-M	4.5 to 42.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	500	PWM	±3 (T_a=25°C)	–	–	–	−40 to +125	HTSOP-J8	FSs	YES
BD8374HFP-M	4.5 to 42.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	500	PWM	±3 (T_a=25°C)	–	–	–	−40 to +125	HRP7	FSs	YES
BD83732HFP-M	4.5 to 42.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	500	PWM/DC	±3 (T_a=25°C)	–	7.65	–	−40 to +125	HRP7	FSs	YES
BD83733HFP-M	4.5 to 42.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	500	PWM/DC	±3 (T_a=25°C)	–	11.0	–	−40 to +125	HRP7	FSs	YES
BD83740HFP-M	4.5 to 42.0	DRL/Position/ FOG/Turn/Rear	1	Internal	50	500	PWM	±3 (T_a=25°C)	–	–	–	−40 to +125	HRP7	FSs	YES

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显示用驱动器

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TN/STN液晶显示用驱动器

LCD用 通用段码驱动器

低Duty LCD段码驱动器

Part No.	Display (dots)	Outputs		Operating Voltage (V)		Operating Temperature (˚C)	Duty	Bias	I/F	EVR	GPO	Independent Blink	LED Driver (port)	PWM Gen.	Keyscan	Package
		seg.	com.	I/F Power Supply (V_{DD})	LCD Power Supply (VLCD)											
BU9796AMUV	48	12	4	2.5 to 5.5		−40 to +85	1/4	1/3, 1/2	2wire	–	–	–	–	–	–	VQFN024V4040
BU9796AFS	80	20	4	2.5 to 5.5		−40 to +85	1/4	1/3, 1/2	2wire	–	–	–	–	–	–	SSOP-A32
BU97941FV	104	26	4	1.8 to 3.6	2.7 to 5.5	−40 to +85	1/4, 1/3, Static	1/3	3wire	–	–	–	4	–	–	SSOP-B40
BU9795AFV	108	27	4	2.5 to 5.5		−40 to +85	1/4	1/3, 1/2	3wire	–	–	–	–	–	–	SSOP-B40
BU97930MUV	108	27	4	1.8 to 3.6	2.7 to 5.5	−40 to +85	1/4, 1/3, Static	1/3	3wire	–	4port	✓	1	1ch 8bit	–	VQFN040V6060
BU97931FV	112	28	4	1.8 to 3.6	2.7 to 5.5	−40 to +85	1/4, 1/3, Static	1/3	3wire	–	5port	✓	1	1ch 8bit	–	SSOP-B40
BU97960MUV	120	15	8	2.5 to 6.0	2.5 to 6.0	−40 to +85	1/8, 1/4	1/4, 1/3	2wire	✓	–	–	–	–	–	VQFN028V5050
BU9795BKV	140	35	4	2.5 to 5.5		−40 to +85	1/4	1/3, 1/2	3wire	–	–	–	–	–	–	VQFP48C
BU9795ZKS2	140	35	4	2.5 to 5.5		−40 to +85	1/4	1/3, 1/2	3wire	–	–	–	–	–	–	SQFP-T52
BU9797AFUV	144	36	4	2.5 to 5.5		−40 to +85	1/4	1/3	2wire	–	–	–	–	–	–	TSSOP-C48V
BU97981MUV	168	42	4	1.8 to 3.6	3.3 to 5.5	−30 to +75	1/4, 1/3, Static	1/3	3wire	–	27port	✓	3	2ch 12bit	–	VQFN56AV8080
BU97981KV	196	49	4	1.8 to 3.6	3.3 to 5.5	−30 to +75	1/4, 1/3, Static	1/3	3wire	–	31port	✓	3	2ch 12bit	–	VQFP64
BU97981GU	196	49	4	1.8 to 3.6	3.3 to 5.5	−30 to +75	1/4, 1/3, Static	1/3	3wire	–	31port	✓	3	2ch 12bit	–	VBGA064T050A
BU9794AKV	200	50	4	2.5 to 5.5	2.5 to 5.5	−40 to +85	1/4	1/3, 1/2	3wire	–	–	–	–	–	–	VQFP64
BU9799KV	200	50	4	2.5 to 5.5	2.5 to 5.5	−40 to +85	1/4	1/3, 1/2	2wire	✓	–	–	–	–	–	VQFP64
BU97501KV	204	51	4	2.7 to 6.0	4.5 to 6.0	−40 to +85	1/4, 1/3	1/3, 1/2	3wire+ KEYOUT	–	4port	–	–	–	5×6 Max 30Key	VQFP64
BU97950AFUV	280	35	8	2.5 to 6.0	2.5 to 6.0	−40 to +85	1/8, 1/4	1/4, 1/3	2wire	✓	–	–	–	–	–	TSSOP-C48V
BU97530KVT	445	89	5	2.7 to 6.0		−40 to +85	1/5, 1/4, 1/3, Static	1/3, 1/2	3wire+ KEYOUT	✓	9port (9ch PWM)	–	–	9ch 8bit	5×6 Max 30Key	TQFP100V

LCD用 通用段码驱动器

车载用低Duty LCD段码驱动器

Part No.	Display (dots)	Outputs		Operating Voltage (V)		Operating Temperature (˚C)	Duty	Bias	I/F	EVR	GPO	Independent Blink	LED Driver	PWM Gen.	Keyscan	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
		seg.	com.	I/F Power Supply (V_{DD})	LCD Power Supply (VLCD)													
BU97601FV-M	116	29	4	2.7 to 6.0		−40 to +85	1/4, 1/3, 1/2, Static	1/3, 1/2	3wire +KEYOUT	✓	16port (16ch PWM)	—	—	6ch 9bit	4x5 Max 20Key	SSOP-B40	FSs	YES
BU9797FUV-M	144	36	4	2.5 to 5.5		−40 to +85	1/4	1/3, 1/2	2wire	—	—	—	—	—	—	TSSOP-C48V	FSs	YES
BU97510CKV-M	216	54	4	2.7 to 6.0		−40 to +85	1/4, 1/3	1/3, 1/2	3wire	—	6port (6ch PWM)	—	—	6ch 6bit	—	VQFP64	FSs	YES
BU97520AKV-M	276	69	4	2.7 to 6.0		−40 to +85	1/4, 1/3	1/3, 1/2	3wire +KEYOUT	—	6port (6ch PWM)	—	—	6ch 8bit	5x6 Max 30Key	VQFP80	FSs	YES
BU97540KV-M	335	67	5	2.7 to 6.0		−40 to +85	1/5, 1/4, 1/3, Static	1/3, 1/2	3wire +KEYOUT	✓	9port (9ch PWM)	—	—	9ch 9bit	5x6 Max 30Key	VQFP80	FSs	YES
BU97530KVT-M	445	89	5	2.7 to 6.0		−40 to +85	1/5, 1/4, 1/3, Static	1/3, 1/2	3wire +KEYOUT	✓	9port (9ch PWM)	—	—	9ch 8bit	5x6 Max 30Key	TQFP100V	FSs	YES
BU97550KV-M	528	66	8	2.7 to 6.0		−40 to +85	1/8, 1/7, 1/5, 1/4, 1/3, Static	1/4, 1/3, 1/2	3wire +KEYOUT	✓	9port (9ch PWM)	—	—	9ch 9bit	5x6 Max 30Key	VQFP80	FSs	YES
BU91795MUF-M	48	12	4	2.5 to 6.0		−40 to +105	1/4	1/3	2wire	—	—	—	—	—	—	VQFN24FV4040	FSs	YES
BU91796BMUF-M	80	20	4	2.5 to 6.0		−40 to +105	1/4	1/3	2wire	—	—	—	—	—	—	VQFN32FBV050	FSs	YES
BU91796FS-M	80	20	4	2.5 to 6.0		−40 to +105	1/4	1/3	2wire	—	—	—	—	—	—	SSOP-A32	FSs	YES
BU91600FV-M	116	29	4	2.7 to 6.0		−40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	3wire +KEYOUT	✓	16port (16ch PWM)	—	—	6ch 9bit	4x5 Max 20Key	SSOP-B40	FSs	YES
BU91797MUF-M	144	36	4	2.5 to 6.0		−40 to +105	1/4	1/3	2wire	—	—	—	—	—	—	VQFN48FV7070	FSs	YES
BU91797FUV-M	144	36	4	2.5 to 6.0		−40 to +105	1/4	1/3	2wire	—	—	—	—	—	—	TSSOP-C48V	FSs	YES
BU91600FUV-M	148	37	4	2.7 to 6.0		−40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	3wire +KEYOUT	✓	16port (16ch PWM)	—	—	6ch 9bit	4x5 Max 20Key	TSSOP-C48V	FSs	YES
BU91799KV-M	200	50	4	2.5 to 6.0	2.5 to 6.0	−40 to +105	1/4	1/3	2wire	✓	—	—	—	—	—	VQFP64	FSs	YES
BU91501KV-M	204	51	4	2.7 to 6.0	4.5 to 6.0	−40 to +105	1/4, 1/3	1/3, 1/2	3wire +KEYOUT	—	4port	—	—	—	5x6 Max 30Key	VQFP64	FSs	YES
BU91510KV-M	216	54	4	2.7 to 6.0		−40 to +105	1/4, 1/3	1/3, 1/2	3wire	—	6port (6ch PWM)	—	—	6ch 6bit	—	VQFP64	FSs	YES
BU91520KV-M	276	69	4	2.7 to 6.0		−40 to +105	1/4, 1/3	1/3, 1/2	3wire +KEYOUT	—	6port (6ch PWM)	—	—	6ch 8bit	5x6 Max 30Key	VQFP80	FSs	YES
BU91530KVT-M	445	89	5	2.7 to 6.0		−40 to +105	1/5, 1/4, 1/3, Static	1/3, 1/2	3wire +KEYOUT	✓	9port (9ch PWM)	—	—	9ch 8bit	5x6 Max 30Key	TQFP100V	FSs	YES
BU91R63CH-M	176	44	4	2.7 to 6.0	2.7 to 6.0	−40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	2wire	✓	—	—	—	—	—	Au Bump Chip	FSs	YES
BU91R64CH-M	320	80	4	2.7 to 6.0	2.7 to 6.0	−40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	2wire/ 3wire	✓	—	✓	—	—	—	Au Bump Chip	FSs	YES
BU91R65CH-M	640	160	4	2.7 to 6.0	2.7 to 6.0	−40 to +105	1/4, 1/3, 1/2, Static	1/3, 1/2	2wire/ 3wire	✓	—	✓	—	—	—	Au Bump Chip	FSs	YES

工业设备用低Duty LCD段码驱动器

Part No.	Display (dots)	Outputs		Operating Voltage (V)		Operating Temperature (˚C)	Duty	Bias	Interface	EVR	GPO	Independent Blink	LED Driver (port)	PWM Gen.	Keyscan	Package
		seg.	com.	I/F Power Supply (V_{DD})	LCD Power Supply (VLCD)											
BU97941FV-LB	104	26	4	1.8 to 3.6	2.7 to 5.5	−40 to +85	1/4, 1/3, Static	1/3	3wire	—	—	—	4	—	—	SSOP-B40
BU9795AFV-LB	108	27	4	2.5 to 5.5		−40 to +85	1/4	1/3, 1/2	3wire	—	—	—	—	—	—	SSOP-B40
BU97931FV-LB	112	28	4	1.8 to 3.6	2.7 to 5.5	−40 to +85	1/4, 1/3, Static	1/3	3wire	—	5port	✓	1	1ch 8bit	—	SSOP-B40

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传感器/MEMS

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霍尔IC

两极检测霍尔IC 检测出S极和N极时，输出ON(低电平有效)

Part No.	Supply Voltage (V)	Operate Point (mT)		Pulse Drive Period (ms)	Supply Current (Avg.) (µA)	Output	Operating Temperature (˚C)	Package
		S-pole	N-pole					
BD7411G	4.5 to 5.5	+3.4	−3.4	–	2.0 (mA)	CMOS	−40 to +85	SSOP5

两极检测(极性判别输出) 霍尔IC 具有S极和N极检测用2个输出，能够辨别极性

Part No.	Supply Voltage (V)	Operate Point (mT)		Pulse Drive Period (ms)	Supply Current (Avg.) (µA)	Output	Operating Temperature (˚C)	Package (mm)
		S-pole	N-pole					
BU52272NUZ	1.65 to 3.60	+2.4	−2.4	50	4.4	CMOS (2 Outputs: S, N pole)	−40 to +85	VSON04Z1114A 1.1×1.4, H=Max 0.4
BU52072GWZ	1.65 to 3.60	+2.4	−2.4	50	4.4	CMOS (2 Outputs: S, N pole)	−40 to +85	UCSP35L1 0.8×0.8, H=Max 0.4
BU52073GWZ	1.65 to 3.60	+4.1	−4.1	50	4.4	CMOS (2 Outputs: S, N pole)	−40 to +85	UCSP35L1 0.8×0.8, H=Max 0.4
BU52074GWZ	1.65 to 3.60	+6.3	−6.3	50	4.4	CMOS (2 Outputs: S, N pole)	−40 to +85	UCSP35L1 0.8×0.8, H=Max 0.4
BU52075GWZ	1.65 to 3.60	+9.5	−9.5	50	5.0	CMOS (2 Outputs: S, N pole)	−40 to +85	UCSP35L1 0.8×0.8, H=Max 0.4
BU52737GWZ	2.5 to 4.5	+15.0	+15.0	50	0.8	CMOS (2 Outputs: S, N pole)	−40 to +85	UCSP35L1 0.8×0.8, H=Max 0.4
BU52077GWZ	1.65 to 3.60	+15.0	−15.0	50	5.0	CMOS (2 Outputs: S, N pole)	−40 to +85	UCSP35L1 0.8×0.8, H=Max 0.4
BU52078GWZ	1.65 to 3.60	+24.0	−24.0	50	5.0	CMOS (2 Outputs: S, N pole)	−40 to +85	UCSP35L1 0.8×0.8, H=Max 0.4

工业设备用 交变检测霍尔IC

Part No.	Supply Voltage (V)	Operate Point (mT)		Magnetic Signal Input Frequency (Hz)	Supply Current (µA)	Output	Operating Temperature (˚C)	Package (mm)
		S-pole	N-pole					
New **BD54132G-LBZ**	2.5 to 38	2.7	−2.7	20k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12

车载用 单极检测霍尔IC

Part No.	Supply Voltage (V)	Operate Point (mT)		Magnetic Signal Input Frequency (Hz)	Supply Current (µA)	Output	Operating Temperature (˚C)	Package (mm)	Automotive Grade AEC-Q100
		S-pole	N-pole						
BD53103G-CZ	2.7 to 38	3.5	–	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12	YES
BD53104G-CZ	2.7 to 38	7.5	–	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12	YES
BD53105G-CZ	2.7 to 38	10.0	–	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12	YES
BD53106G-CZ	2.7 to 38	12.5	–	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12	YES
BD53107G-CZ	2.7 to 38	18.0	–	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12	YES
BD53108G-CZ	2.7 to 38	28.0	–	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12	YES

车载用 交变检测霍尔IC

Part No.	Supply Voltage (V)	Operate/Release Point (mT)		Magnetic Signal Input Frequency (Hz)	Supply Current (µA)	Output	Operating Temperature (˚C)	Package (mm)	Automotive Grade AEC-Q100
		Bop	Brp						
BD54102G-CZ	2.7 to 38	2.0	−2.0	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12	YES
BD54103G-CZ	2.7 to 38	5.0	−5.0	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12	YES
BD54104G-CZ	2.7 to 38	7.5	−7.5	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12	YES
BD54105G-CZ	2.7 to 38	10.0	−10.0	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12	YES
BD54107G-CZ	2.7 to 38	15.0	−15.0	10k	1.3	Nch Open Drain	−40 to +150	SSOP3A 2.92×2.4, H=Max 1.12	YES

地磁传感器IC

三轴数字地磁传感器IC

Part No.	Supply Voltage (V)	Magnetic Measurement (μT)	Magnetic Sensitivity (μT/LSB)	Current Consumption (μA)	I/F	Operating Temperature (°C)	Package (mm)
BM1423GMV	1.7 to 3.6	±1,200	0.042	150	I^{2}C	−40 to +85	MLGA010V020A 2.0×2.0, H=Max 1.0

电流传感器IC

非接触式电流传感器IC

Part No.	Supply Voltage (V)	Magnetic Measurement (μT)	Magnetic Sensitivity (μT/LSB)	Current Consumption (μA)	I/F	Operating Temperature (°C)	Package (mm)
BM14270AMUV-LB	2.7 to 5.5	±280	0.045	70	I^{2}C	−40 to +125	VQFN20QV3535 3.5×3.5, H=Max 1.0

电流检测放大器IC

Part No.	Ch	Supply Voltage (V)	Quiescent Current (μA)	Common Mode Voltage (V)	Gain (V/V)	Gain Accuracy (%)	Operating Temperature (°C)	Package (mm)
BD14210G-LA	1	2.7 to 5.5	170	−0.2 to +26	20	±1 (Max)	−40 to +125	SSOP6 2.9×2.8, H=Max 1.25
New **BD14211G-LA**	1	2.7 to 5.5	170	−0.2 to +26	50	±1 (Max)	−40 to +125	SSOP6 2.9×2.8, H=Max 1.25
New **BD14215FVJ-LA**	2	2.7 to 5.5	310	−0.2 to +26	20	±1 (Max)	−40 to +125	TSSOP-B8J 3.0×4.9, H=Max 1.10

照度传感器IC

电流输出型模拟照度传感器IC

Part No.	Supply Voltage (V)	Sensitivity Variations (%)	Detection Range (lx)	Sensitivity (μA/lx)	IR Cut	I/F	Operating Temperature (°C)	Package
BH1603FVC	2.4 to 5.5	±15	0 to 100,000	0.6	–	Linear Current Output (Source)	−40 to +85	WSOF6
BH1620FVC	2.4 to 5.5	±15	0 to 100,000	0.6	–	Linear Current Output (Source)	−40 to +85	WSOF5
BH1680FVC	2.4 to 5.5	±15	0 to 50,000	6	✓	Linear Current Output (Source)	−40 to +85	WSOF5
BH1682FVC	2.3 to 5.5	±3μA	1 to 55,000	–	✓	Logarithmic Current Output (Source)	−40 to +85	WSOF5

16bit串行输出型数字照度传感器IC

Part No.	Supply Voltage (V)	Sensitivity Variations (%)	Detection Range (lx)	Sensitivity (at 100ms) (lx/count)	IR Cut	I/F	Operating Temperature (°C)	Package
BH1721FVC	2.4 to 3.6	±15	0 to 65,000	1	–	I^{2}C	−40 to +85	WSOF5
BH1730FVC	2.4 to 3.6	±15	0 to 65,000	0.007	–	I^{2}C	−40 to +85	WSOF6
BU27034ANUC	1.7 to 2.0	±15	0 to 20,000	0.000016	✓	I^{2}C	−40 to +85	WSON008X2120

颜色传感器IC

16bit串行输出型数字颜色传感器IC

Part No.	Supply Voltage (V)	λ_P (nm)				Illuminance Measurement (lx)	High Sensitivity	IR Cut	Fricker detection	I/F	Operating Temperature (°C)	Package (mm)
		Red	Green	Blue	IR							
BU27006MUC-Z	1.7 to 3.6	630	540	460	825	0 to 50,000	✓	✓	✓	I^{2}C	−40 to +85	WQFN12X2520A 2.5×2.0, H=Max 0.55

气压传感器IC

内置温度补偿功能数字气压传感器IC

Part No.	Supply Voltage (V)	Pressure Range (hPa)	Relative Pressure Accuracy (hPa)	Absolute Pressure Accuracy (hPa)	I/F	Operating Temperature (˚C)	Waterproof	Package (mm)
BM1390GLV-Z	1.7 to 3.6	300 to 1,300	±0.06	±1	I²C	−40 to +85	✓	RLGA10VG020T 2.0×2.0, H=Max 1.0

温度传感器IC

模拟输出温度传感器IC

Part No.	Supply Voltage (V)	Temperature Accuracy (˚C)		Temperature Sensitivity (mV/˚C)	Output Voltage (V) (T_a=+30˚C, V_{DD}=3V)	Supply Current (μA)	Operating Temperature (˚C)	Package
		T_a=+30˚C	T_a=−30, +100˚C					
BD1020HFV	2.4 to 5.5	±1.5	±2.5	−8.2	1.3	4.0	−30 to +100	HVSOF5

数字输出温度传感器IC

Part No.	Supply Voltage (V)	Temperature Accuracy (˚C) T_a=−20 to +85˚C	Current Consumption (μA)	I/F	Operating Temperature (˚C)	Package
BH1900NUX	2.7 to 3.6	±3	75	I²C	−30 to +95	VSON008X2030

震动传感器用放大器

震动传感器用放大器

Part No.	Supply Voltage (V)	Current Consumption (mA)	Notch Frequency (kHz)	Notch Attenuation Rate (dB)	Operating Temperature (˚C)	Package
BD3852MUZ-Z	1.6 to 2.3	1.6 to 4.5	31.0	−23.0	−40 to +85	VQFN16Z3030A

加速度传感器

3轴加速度传感器

Part No.	Acceleration Range (±g)	Mechanical Signal Bandwidth (Hz)	I/F	Operating Temperature (˚C)	Size, No. of Pins, Package	Features
New **KX022ACR-Z**	2, 4, 8, 16	800	I²C/SPI	−40 to +85	2×2×1mm, 12pin, LGA	Wake-up and Back-to-sleep Function, 86sets (8bit) or 43sets (16bit) Buffer
New **KX132ACR-LBZ**	2, 4, 8, 16	4,200 (XY) 2,900 (Z)	I²C/SPI	−40 to +105	2×2×1mm, 12pin, LGA	Up to +105˚C Operating Temperature, Up to 25.6kHz Output Data Rate, 86sets (8bit) or 43sets (16bit) Buffer
New **KX134ACR-LBZ**	8, 16, 32, 64	8,200 (X) 8,500 (Y) 5,600 (Z)	I²C/SPI	−40 to +105	2×2×1mm, 12pin, LGA	Up to +105˚C Operating Temperature, Up to 25.6kHz Output Data Rate, Wide Mechanical Signal Bandwidth, 86sets (8bit) or 43sets (16bit) Buffer

无线LSI

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Sub-GHz LSI

(LAPIS Technology产品)

Sub-GHz LSI

Part No.	Support Standard	Frequency Band	Tx Power (dBm)	Max. Data Rate (kbps)	Modulation Method	RF Function	Communication Mode	CPU core	Memory resources	Operating Temperature (°C)	Package
ML7386	ARIB STD-T67 RCR STD-30	400 (426)	10	7.2	2-FSK[1]	–	DIO (Tx only)	–	–	−25 to +85	P-WQFN28 -0404-0.40-63
ML7386B			1/10		2-FSK MSK						P-WQFN28 -0404-0.40-63
ML7396D	ARIB STD-T108 EN300-220 IEEE802.15.4g	920 (900 to 960)	1/10/13	400	2-FSK	Antenna Diversity FEC (IEEE802.15.4g)	Packet (SPI), DIO	–	–	−40 to +85	P-WQFN40 -0606-0.50-63
ML7344J	ARIB STD-T67 RCR STD-30	160, 400 (160 to 510)	1/10/13	15	2-FSK	Antenna Diversity		–	–		P-WQFN32 -0505-0.50-A63
ML7406	EN300-220 EN1357-4: 2011 IEEE802.15.4g	860, 920 (750 to 960)	1/10/13	500	2-FSK	Antenna Diversity		–	–		P-WQFN32 -0505-0.50-A63
ML7345	ARIB STD-T67 ARIB STD-T108 RCR STD-30 EN300-220 EN13757-4: 2013 IEEE802.15.4g	160, 400, 860, 920 (160 to 960)	1/10/13	100	2-FSK 4-FSK	Antenna Diversity		–	–		P-WQFN32 -0505-0.50-A63
ML7345D		400, 860, 920 (315 to 960)	1/10/13	100		Antenna Diversity		–	–		P-WQFN32 -0505-0.50-A63
ML7404	Sigfox ARIB STD-T67 ARIB STD-T108 RCR STD-30 EN300-220 EN13757-4: 2013 IEEE802.15.4k IEEE802.15.4g	400, 860, 920 (315 to 960)	1/10/13	100 (FSK) 25 (DSSS)	2-FSK 4-FSK BPSK (DSSS)	Antenna Diversity FEC (IEEE802.15.4k)		–	–		P-WQFN32 -0505-0.50-A63
New **ML7425**	Sigfox ARIB STD-T67 ARIB STD-T108 RCR STD-30 EN300-220 EN13757-4: 2013 IEEE802.15.4g/15.4aa	160, 400, 860, 920 (145 to 1020)	1/10/13	1200	2-FSK 4-FSK BPSK (TX only)	Antenna Diversity		–	–	−40 to +105	P-WQFN32 -0505-0.50-A63

Sub-GHz SoC

Part No.	Support Standard	Frequency Band	Tx Power (dBm)	Max. Data Rate (kbps)	Modulation Method	RF Function	Communication Mode	CPU core	Memory resources	Operating Temperature (°C)	Package
ML7416N	ARIB STD-T108 IEEE802.15.4g	920 (750 to 960)	1/10/13	400	2-FSK	Antenna Diversity FEC (IEEE802.15.4g)	Packet (SPI), DIO	Cortex®-M0+ (to 40MHz)	FLASH512KB, RAM64KB	−40 to +85	P-LFBGA81 -1010-1.00-1-MC
ML7436N	ARIB STD-T66 ARIB STD-T67 ARIB STD-T108 EN300-220 FCC part15 IEEE802.15.4g	400, 860, 920, 2400 (400 to 960, 2400)	1/10/13	300	2-FSK 4-FSK	Antenna Diversity FEC (IEEE802.15.4g)		Cortex®-M3 (to 81MHz)	FLASH1024KB, RAM256KB		P-TQFP48 -0707-0.50-Z9K6-MC
ML7456N	Sigfox ARIB STD-T108 EN300-220 EN13757-4: 2013 IEEE802.15.4g	860, 920 (315 to 960)	1/10/13	100	2-FSK 4-FSK BPSK (TX only)	Antenna Diversity FEC (IEEE802.15.4g)		nX-U16 (to 24MHz)	FLASH64KB, RAM8KB		P-WQFN48 -0606-0.40-T63-MC

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[1] 未搭载高斯滤波器

RFID LSI

(LAPIS Technology产品)

传感器搭载LSI

Part No.	Support Standard	Frequency Band (MHz)	Passive Sensitivity (dBm)	Sensor	Measurement Range (pF)	Accuracy	Resolution (pF)	Sensor control (EPC command)	Memory (bit)	Operating Temperature (°C)	I/F	Package
☆**MR7930**	ISO/IEC 18000-63 EPC Gen2[1]	860 to 960	READ: −9.5 WRITE: −8.5 SENSOR: −8.5	Capacitive	Low Range: 5 to 25 High Range: 15 to 100	±5%	Low Range: 0.01 High Range: 0.02 to 0.20	READ, WRITE (mandatory)	EPC: 96 USER: 144	−40 to +65	–	Au bump Wafer
New **MR793200**											SPI Slave	P-WQFN24 -0404-0.50-A63

[1] EPC Gen2为EPCglobal Class1 Generation2的缩写，EPC为Electric Product Code的缩写。

☆: 开发中

音频/视频

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音频放大器

车载功放

1.2W 单声道AB类功放

Part No.	Supply Voltage (V)	Quiescent Current (mA)	Standby Current (μA)	Voltage Gain (dB)	Output Power (W)	Input Inpedance Z_{IN} (kΩ)	Built-in Amplifier Resistance		Distortion (%)	Output Noise Voltage (μVrms)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
							Ri (kΩ)	Rf (kΩ)					
BD78306EFJ-M	4.0 to 5.5	2.5	0.1	6.0 (P_O=0.5W)	1.2 (THD+N=1%)	45	90	90	0.05 (P_O=1W)	15	HTSOP-J8	FSs	YES
BD78310EFJ-M				10.0 (P_O=0.5W)		35	70	110	0.06 (P_O=1W)	17	HTSOP-J8	FSs	YES
BD78326EFJ-M				26.0 (P_O=0.5W)		8	16	164	0.20 (P_O=1W)	50	HTSOP-J8	FSs	YES

◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1 "ComfySIL™ 功能安全类别" 的详情请参阅封二。

扬声器放大器

便携式放大器 1.9W＋1.9W立体声扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Standby Current (μA)	Voltage Gain (dB)	Output Power (W)	Distortion (%)	Output Noise Voltage (μVrms)	Package
BD7836EFV	4.5 to 5.5	1.0	5	0.1	6/10/15.6/21.6	1.9 (V_{DD}=5V, 4Ω, THD+N=1%)	0.1	16	HTSSOP-B20

便携式放大器 1.1W～1.5W单声道扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Standby Current (μA)	Voltage Gain (dB)	Output Power (R_L=8Ω, THD=10%)		Distortion (%)	Output Noise Voltage (dBV)	Package
						V_{CC}=3.6V	V_{CC}=5.0V			
BD7830NUV	2.4 to 5.5	0.53	3.2	0	0 to 20	0.77W	1.5W	0.1	–100	VSON008V2030

便携式放大器 模拟输入单声道D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Voltage Gain (dB)	Output Power (W)		Distortion (%)	Output Noise Voltage (μVrms)	ALC Circuit	Package (mm)
BD5460GUL	2.5 to 5.5	0.69	2.0 (V_{DD}=3.6V)	6	2.5 (V_{DD}=5V, R_L=4Ω THD+N=10%)	0.85 (V_{DD}=3.6V, R_L=8Ω THD+N=10%)	0.3 (V_{DD}=3.6V)	30	–	VCSP50L1 1.6×1.6, H=0.55Max
BD5461GUL		0.69	2.0 (V_{DD}=3.6V)	12	2.5 (V_{DD}=5V, R_L=4Ω THD+N=10%)	0.85 (V_{DD}=3.6V, R_L=8Ω THD+N=10%)		40	–	VCSP50L1 1.6×1.6, H=0.55Max
BD27400GUL		0.69	2.9 (V_{DD}=3.6V)	External Variable	2.5 (V_{DD}=5V, R_L=4Ω THD+N=10%)	0.85 (V_{DD}=3.6V, R_L=8Ω THD+N=10%)		40	–	VCSP50L1 1.5×1.5, H=0.55Max
BD5632NUX		0.52	2.7 (V_{DD}=3.6V)	6	2.5 (V_{DD}=5V, R_L=4Ω THD+N=10%)	0.85 (V_{DD}=3.6V, R_L=8Ω THD+N=10%)		40	–	VSON008X2030
BD5634NUX		0.52	2.7 (V_{DD}=3.6V)	12	2.5 (V_{DD}=5V, R_L=4Ω THD+N=10%)	0.85 (V_{DD}=3.6V, R_L=8Ω THD+N=10%)		40	–	VSON008X2030
BD5638NUX		0.52	2.7 (V_{DD}=3.6V)	18	2.5 (V_{DD}=5V, R_L=4Ω THD+N=10%)	0.85 (V_{DD}=3.6V, R_L=8Ω THD+N=10%)		40	–	VSON008X2030
BD5465GUL		0.69	3.3 (V_{DD}=3.6V)	12	0.6 (V_{DD}=3.4 to 5.5V, R_L=8Ω THD+N≤1%)			40	✓	VCSP50L1 1.8×1.8, H=0.55Max
BD5466GUL		0.69	3.0 (V_{DD}=3.6V)	18	1.5 (V_{DD}=5V, R_L=4Ω THD+N≤1%)	0.5 (V_{DD}=3.6V, R_L=8Ω THD+N≤1%)		40	✓	VCSP50L1 1.7×1.7, H=0.55Max
BD5467GUL		0.69	3.0 (V_{DD}=3.6V)	13	1.5 (V_{DD}=5V, R_L=4Ω THD+N≤1%)	0.5 (V_{DD}=3.6V, R_L=8Ω THD+N≤1%)		40	✓	VCSP50L1 1.7×1.7, H=0.55Max
BD5468GUL		0.69	3.0 (V_{DD}=3.6V)	13	1.5 (V_{DD}=5V, R_L=4Ω THD+N≤1%)	0.5 (V_{DD}=3.6V, R_L=8Ω THD+N≤1%)		40	✓	VCSP50L1 1.7×1.7, H=0.55Max
BD5469GUL		0.69	3.0 (V_{DD}=3.6V)	13	0.88 (V_{DD}=4.2V, R_L=8Ω THD+N≤1%)	0.64 (V_{DD}=3.6V, R_L=8Ω THD+N≤1%)		40	✓	VCSP50L1 1.7×1.7, H=0.55Max

便携式放大器 模拟输入立体声D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Voltage Gain (dB)	Output Power (W)		Distortion (%)	Output Noise Voltage (μVrms)	Max LDO Current (mA)	Package
BD28412MUV	4.5 to 13.0	3.20	16 (V_{CC}=11V)	20/26/ 32/36	18 (V_{CC}=12V, R_L=4Ω THD+N=10%, PBTL)	9 (V_{CC}=12V, R_L=8Ω THD+N=10%)	0.03 (V_{CC}=11V)	100	–	VQFN032V5050

中/高输出放大器 搭载DSP的支持数字输入的D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Output Power (W)		Distortion (%)	Output Noise Voltage (μVrms)	DSP					Package
								Volume	DC Cut HPF	Hard Clipper	Parametric EQ	DRC	
BM28723AMUV	10 to 24	4.56 (4-Layer Board)	45 (V_{CC}=18V)	10 (Vcc=13V R_L=8Ω)	17 (Vcc=18V R_L=8Ω)	0.08	150	✓	✓	✓	✓ (12 Band)	✓ (3 Band)	VQFN032V5050

中/高输出放大器 支持数字输入的D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Output Power (W)		Distortion (%)	Output Noise Voltage (μVrms)	Power Limiter Function	Package
BD28623MUV	8.5 to 24.0	3.56 (4-Layer Board) 2.21 (2-Layer Board)	40 (V_{CC}=18V)	–	15 (V_{CC}=16V, R_L=8Ω)	0.08	150	✓ (GAIN)	VQFN024V4040

中/高功率放大器 支持模拟输入/BTL输出的D类扬声器放大器

Part No.	Supply Voltage (V)	Power Dissipation (W)	Quiescent Current (mA)	Voltage Gain (dB)	Output Power (W)		Distortion (%)	Output Noise Voltage (μVrms)	Power Limiter Function	Package
BD5424EFS	10.0 to 18.0	4.5 (4-Layer Board) 2.0 (2-Layer Board)	30 (V_{CC}=12V)	28	10 (V_{CC}=12V, R_L=8Ω)	20 (V_{CC}=17V, R_L=8Ω)	0.1	80	✓ (Power Limitter)	HTSSOP-A44
BD5423AEFS	10.0 to 16.5	4.5 (4-Layer Board) 2.0 (2-Layer Board)	25 (V_{CC}=12V)	28	10 (V_{CC}=12V, R_L=8Ω)	17 (V_{CC}=12V, R_L=4Ω)	0.1	80	✓ (Power Limitter)	HTSSOP-A44
BD5426EFS	10.0 to 16.5	4.5 (4-Layer Board) 2.0 (2-Layer Board)	25 (V_{CC}=12V)	28	9 (V_{CC}=12V, R_L=8Ω)	10 (V_{CC}=13V, R_L=8Ω)	0.1	80	✓ (Power Limitter)	HTSSOP-A44
BD5413EFV	6.0 to 10.5	2.8 (4-Layer Board) 1.1 (2-Layer Board)	12 (V_{CC}=9V)	30	4 (V_{CC}=9V, R_L=8Ω)	5 (V_{CC}=9V, R_L=6Ω)	0.2	90	–	HTSSOP-B24

耳机放大器

无需耦合电容器的耳机放大器

Part No.	Supply Voltage (V)	Quiescent Current (mA)	Gain (V/V)	Maximum Output Power (mW)	Distortion (%)	Output Noise Voltage (μVrms)	Ripple Rejection (dB)	Note	Package (mm)
BD88200GUL	2.4 to 5.5	2	Variable Gain with external resistor	80 (V_{DD}=3.3V, R_L=16Ω)	0.006 (V_{DD}=3.3V, R_L=16Ω)	10	–80 (f=217Hz)	Virtual ground based	VCSP50L2 2.1×2.1
BD88210GUL			–1.0					Virtual ground based	VCSP50L2 2.1×2.1
BD88215GUL			–1.5					Virtual ground based	VCSP50L2 2.1×2.1
BD88220GUL			–2.0					Virtual ground based	VCSP50L2 2.1×2.1
BD88400GUL			Variable Gain with external resistor					Ground based	VCSP50L2 2.1×2.1
BD88400FJ			Variable Gain with external resistor					Ground based	SOP-J14
BD88410GUL			–1,0					Ground based	VCSP50L2 2.1×2.1
BD88415GUL			–1.5					Ground based	VCSP50L2 2.1×2.1
BD88420GUL			–2.0					Ground based	VCSP50L2 2.1×2.1

0.93V低电压工作(1节电池)耳机放大器

Part No.	Supply Voltage (V)	Quiescent Current (mA)	Maximum Output Power (mW)		Distortion (%)		Output Noise Voltage (μVrms)	Package
			Single-ended (16Ω)	BTL (8Ω)	Single-ended (16Ω)	BTL (8Ω)		
BU7150NUV	0.93 to 3.50 (T_a=0°C or more)	1	14 (V_{DD}=1.5V)	85 (V_{DD}=1.5V)	0.1 (P_O=5mW)	0.2 (P_O=25mW)	10	VSON010V3030

标准耳机放大器

Part No.	Supply Voltage (V)	Quiescent Current (mA)	Voltage Gain (dB)	Maximum Output Power (mW) R_L=16Ω	Distortion (%)	Ripple Rejection (dB)	Package
BH3544F	2.8 to 6.5	7.0	6	62	0.02	57	SOP8
BH3547F	4.5 to 6.5	3.7	6	77	0.05	57	SOP8
BH3548F	4.0 to 5.5	6.5	6	62 (120@R_L=8Ω)	0.02	57	SOP8

其他

线路放大器(Output Coupling Capacitor-less)

Part No.	Supply Voltage (V)	Circuit Current (mA)	ch	Voltage Gain (dB)	Maximum Output Voltage (Vrms)	Distortion (%)	Output Noise Voltage (μVrms)	Channel Separation (dB)	Ripple Rejection (dB)	Charge Pump	Package
BD8876FV	3.0 to 5.5	3.2	2	6 or 9	3.5	0.003	8	80	65	✓	SSOP-B14
BD8878FV	3.0 to 5.5	3.2	2	6.7	3.0	0.003	10	65	65	✓	SSOP-B14

隔离放大器

Part No.	Supply Voltage (V)	Operating Temperature (˚C)	Circuit	Circuit Current (mA)	Voltage Gain (dB)	CMRR (dB)	Common-mode Input Voltage Range (V) V_{CC}=8V	THD (%)	Output Noise Voltage (μVrms)	Channel Separation (dB)	Slew Rate (V/μs)	Input Resistance (kΩ)	Package
BA3121F	4.0 to 18.0	−30 to +85	2	9.0	−0.04	57	3.75	0.002	3.5	82	2.0	55	SOP8
BA3123F	4.0 to 18.0	−40 to +85	2	9.0	−0.04	57	3.75	0.002	3.5	82	2.0	55	SOP8

音频电源

高音质音频电源

*以下产品属于电源管理产品。(请参见P.42)

关于输入电压，请考虑输出电压值以及输入输出电压差后使用。

高音质音频电源

Part No.	Output Current (A)	Input Voltage (V)	Output Voltage (V)	Reference Voltage Accuracy (%)	Dropout Voltage (mV)	Noise Level (μVrms)	PSRR (dB)	Over-Current Protection	Thermal Protection	Package
MUS-IC **BD37201NUX**	0.5	2.7 to 5.5	Variable 1.0 to 4.5	±1	200	3.3	90 (f=1kHz) 55 (f=1MHz)	✓	✓	VSON008X2030

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作为罗姆音频IC的高端系列，充分实现音频元器件所需的性能参数和音质性能。

音频处理器

模拟音频处理器

内置μ-step音量 6ch/8ch声音处理器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Output Noise Voltage (μVrms)	Distortion (%)	Selector	Main Volume (dB)		Zone Volume (dB)		Tone Control	Serial Control	Package
							ch		ch			
MUS-IC **BD34704KS2**	±6.5 to ±7.5	±32	1.2	0.0004	18	+32 to −95 0.5/Step	8	+7.5 to −91.5 0.5/Step	2	–	2Wire	SQFP-T80C
MUS-IC **BD34705KS2**	±6.5 to ±7.5	±32	1.2	0.0004	12	+32 to −95 0.5/Step	8	+6 to −16 1/Step, −16 to −56 2/Step	2	–	2Wire	SQFP-T64
BD34701KS2	±6.5 to ±7.5	±22	1.5	0.0004	8	+32 to −95 0.5/Step	8	–	–	–	2Wire	SQFP-T52
BD3474KS2	±6.5 to ±7.5	±30	1.5	0.0004	12	+32 to −95 0.5/Step	6	–	–	Bass, Treble	2Wire	SQFP-T80C

2ch/4ch/6ch声音处理器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Output Noise Voltage (μVrms)	Distortion (%)	Selector	Main Volume (dB)		Zone Volume (dB)		Tone Control	Serial Control	Package
							ch		ch			
BD3814FV	±5.0 to ±7.3	±7	1.0	0.001	–	0 to −95 1/Step	6	–	–	Bass, Treble	2Wire	SSOP-B40
BD34700FV	±6.5 to ±7.5	±22	1.5	0.0004	–	+32 to −95 0.5/Step	4	–	–	–	2Wire	SSOP-B40
BD3812F	±5.0 to ±7.3	±2	1.2	0.0050	–	0,6 to 18 2/Step, 0 to −103 1/Step	2	–	–	–	2Wire	SOP14

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6ch/9ch立体声输入选择器IC 最大输入电压4.2V

Part No.	Supply Voltage (V)	Current Consumption (mA)	Output Noise Voltage (μVrms)	Distortion (%)	Selector	Serial Control	Package
BD3843FS	±4.0 to ±7.3	±3	1.0	0.004	6	2Wire	SSOP-A24
BD3841FS	±5.0 to ±7.3	±3	1.0	0.004	9	2Wire	SSOP-A32

内置双频段均衡器的声音处理器

Part No.	Supply Voltage (V)	Current Consumption (mA)	Selector		Input Gain (dB)	Volume (dB)	Fader		Parametric EQ	Loudness	LPF for Sub Woofer	Option	Serial Control	Output Noise Voltage (μVrms)	Distortion (%)	Package
			Single	Diff.			(dB)	Output								
BD37503FV	7.0 to 9.5	20	3	1	0 to +20	0 to −36, −∞	0 to −63, −∞	4	–	✓*	–	Anti-aliasing Filter*	I^{2}C BUS	5.8	0.001	SSOP-B20
BD37511FS	7.0 to 9.5	15	3	–	0 to +20	0 to −40	0 to −62, −∞	4	–	–	–	–	I^{2}C BUS	6.0	0.005	SSOP-A20
BD37512FS	7.0 to 9.5	15	3	1	0 to +20	0 to −40	0 to −62, −∞	4	–	–	–	–	I^{2}C BUS	6.0	0.005	SSOP-A20
BD37513FS	7.0 to 9.5	38	3	1	0 to +20	+15 to −79, −∞	0 to −79, −∞	4	–	✓	–	–	I^{2}C BUS	3.8	0.001	SSOP-A20
BD37514FS	7.0 to 9.5	38	3	1	0 to +20	+15 to −79, −∞	0 to −79, −∞	5	✓	✓	–	–	I^{2}C BUS	3.8	0.001	SSOP-A20
BD37515FS	7.0 to 9.5	38	3	1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	5	✓	✓	✓	–	I^{2}C BUS	3.8	0.001	SSOP-A20
BD37521FS	7.0 to 9.5	38	3	1	0 to +20	+15 to −79, −∞	0 to −79, −∞	4	–	EXT	–	–	I^{2}C BUS	3.8	0.001	SSOP-A24
BD37522FS	7.0 to 9.5	38	4	1	0 to +20	+15 to −79, −∞	0 to −79, −∞	4	✓	✓	–	–	I^{2}C BUS	3.8	0.001	SSOP-A24
BD37523FS	7.0 to 9.5	38	4	1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	5	✓	✓	✓	–	I^{2}C BUS	3.8	0.001	SSOP-A24
BD3870FS	4.5 to 9.5	8	3	–	0/6/12/18	0 to −87, −∞	–	2	EXT	–	–	Surround	2Wire	4.5	0.01	SSOP-A24
BD3871FS	4.5 to 9.5	8	3	–	24/26/28	0 to −87, −∞	–	2	EXT	–	–	Surround	2Wire	40 (Gv=24dB)	0.01	SSOP-A24
BD3490FV	4.75 to 9.50	7	4	–	0/2/4/6/8/ 12/16/20	0 to −87 (2ch Independent control), −∞	–	2	EXT	–	–	Bass Boost, Surround	I^{2}C BUS	5.0	0.002	SSOP-B28
BD3491FS	4.75 to 9.50	7	6	–	0/2/4/6/8/ 12/16/20	0 to −87 (2ch Independent control), −∞	–	2	EXT	–	–	Bass Boost, Surround	I^{2}C BUS	5.0	0.002	SSOP-A32

内置双频段均衡器的声音处理器：搭载低音、高音　*可排他性使用响度
EXT：由外置元件设定
BD37511FS、BD37512FS的引脚兼容。BD37513FS、BD37514FS、BD37515FS的引脚兼容。
BD37522FS和BD37523FS的引脚兼容。

模拟音频处理器

内置3频段均衡器的声音处理器

Part No.	Supply Voltage (V)	Current Consumption (mA)	Selector		Input Gain (dB)	Volume (dB)	Fader		Parametric EQ	Loudness	LPF/HPF for Sub Woofer	Mixing		Level Meter	Option	Serial Control	Output Noise Voltage (μVrms)	Distortion (%)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
			Single	Diff.			(dB)	Outputs					ATT								
BD37524FS	7.0 to 9.5	38	4	1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	6	✓	✓	LPF	—	—	✓	—	I^{2}C BUS	3.8	0.001	SSOP-A24	—	—
BD37531FV	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	6	✓	✓	—	—	—	—	—	I^{2}C BUS	3.8	0.001	SSOP-B28	—	—
BD37532FV	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	6	✓	✓	LPF	—	—	—	—	I^{2}C BUS	3.8	0.001	SSOP-B28	—	—
BD37533FV	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	6	✓	✓	LPF	✓	✓	—	—	I^{2}C BUS	3.8	0.001	SSOP-B28	—	—
BD37534FV	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	6	✓	✓	LPF	✓	✓	✓	—	I^{2}C BUS	3.8	0.001	SSOP-B28	—	—
BD37541FS	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to −79, −∞	0 to −79, −∞	6	✓	EXT	—	✓	—	—	—	I^{2}C BUS	3.8	0.001	SSOP-B28	—	—
BD37542FS	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	6	✓	EXT	LPF	✓	✓	—	—	I^{2}C BUS	3.8	0.001	SSOP-A32	—	—
BD37543FS	7.0 to 9.5	38	2/3/5	3/2/1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	6	✓	EXT	LPF+ HPF	✓	✓	✓	—	I^{2}C BUS	3.8	0.001	SSOP-A32	—	—
BD37544FS	7.0 to 9.5	38	1/3/4	3/2/1	0 to +20	+15 to −79, −∞	+15 to −79, −∞	6	✓	—	LPF+ HPF	✓	✓	—	Super Bass	I^{2}C BUS	3.8	0.001	SSOP-A32	—	—
BD37033FV-M	7.0 to 9.5	31	3/5	2/1	0 to +16	+15 to −79, −∞	+15 to −79, −∞	6	✓	✓	LPF	✓	✓	✓	—	I^{2}C BUS	5.5	0.002	SSOP-B28	FSs	YES
BD37034FV-M	7.0 to 9.5 V_{CC}L to 13	36	3/5	2/1	0 to +16	+15 to −79, −∞	+15 to −79, −∞	6	✓	✓	LPF+ HPF	✓	✓	✓	High Voltage Output	I^{2}C BUS	6.0	0.002	SSOP-B28	FSs	YES
BD3883FS	6.5 to 9.5	8	5	—	0/6/12/16/ 20/23/26/29	0 to −87, −∞	0/−10	2	EXT	—	—	—	—	—	Surround	2Wire	4.0	0.01	SSOP-A32	—	—
BD3403FV	6.5 to 9.5	16	5	—	0 to +26 (2/Step)	0 to −30 (2/Step)	0 to −59, −∞	2	EXT	—	—	—	—	—	Surround	2Wire	8.0	0.02	SSOP-B40	—	—

内置高级开关的通用电子音量控制器

Part No.	Supply Voltage (V)	Current Consumption (mA)	Selector		Input Gain (dB)	Fader Volume (dB)	Outputs	Mixing		Post Filter	High-Voltage Output (dB)	Serial Control	Output Noise Voltage (μVrms)	Distortion (%)	Package	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
			Single	Diff.				ch	ATT (dB)								
BD3464FV	7.0 to 9.5	25	—	—	—	+23 to −79, −∞ (1/Step)	4	—	—	—	—	I^{2}C BUS	1.9	0.0004	SSOP-B20	—	—
BD3465FV	7.0 to 9.5	25	—	—	—	+23 to −79, −∞ (1/Step)	4	3	+0 to −64, −∞ (8/Step)	—	—	I^{2}C BUS	1.9	0.0004	SSOP-B20	—	—
BD3460FS	7.0 to 9.5	25	—	—	—	+23 to −79, −∞ (1/Step)	6	—	—	—	—	I^{2}C BUS	1.9	0.0004	SSOP-A24	—	—
BD3461FS	7.0 to 9.5	25	—	—	—	+23 to −79, −∞ (1/Step)	6	3	+0 to −64, −∞ (8/Step)	—	—	I^{2}C BUS	1.9	0.0004	SSOP-A24	—	—
MUS-IC **BD34602FS-M**	7.0 to 9.5	35	—	—	—	+23 to −79, −∞ (1/Step)	6	3	+0 to −79, −∞ (1/Step)	—	—	I^{2}C BUS	1.3	0.0004	SSOP-A24	FSs	YES
BD37067FV-M	7.0 to 9.5	37	2/3/4/5	4/3/2/1	+23 to −15 (1/Step)	+23 to −79, −∞ (1/Step)	6	1	—	✓	—	I^{2}C BUS	8	0.003	SSOP-B40	FSs	YES
BD37068FV-M	7.0 to 9.5 V_{CC}L to 17.8	30/7	1/2/3/4/5	5/4/3/2/1	+23 to −15 (1/Step)	+23 to −79, −∞ (1/Step)	6	1	—	✓	0/8.3	I^{2}C BUS	23 (High-Voltage Mode)	0.003	SSOP-B40	FSs	YES
BD37069FV-M	7.0 to 9.5 V_{CC}L to 17.8	30/7	2/3/4/5	4/3/2/1	+23 to −15 (1/Step)	+23 to −79, −∞ (1/Step)	6	1	—	✓	2/4.6/8.3	I^{2}C BUS	23 (High-Voltage Mode)	0.003	SSOP-B40	FSs	YES

内置3频段均衡器的语音处理器：EXT：由外部元件设定
BD37531FV、BD37532FV、BD37533FV和BD37534FV引脚兼容。
BD37541FS, BD37542FS、BD37543FS引脚兼容。BD37033FV-M、BD37034FV-M引脚兼容。
内置高级开关的通用电子音量控制器：BD3464FS和BD3465FS引脚兼容。BD3460FS、BD3461FS、BD34602FS-M引脚兼容。
BD37067FV-M和BD37068FV-M引脚兼容。

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◎ComfySIL™ 是ROHM Co., Ltd.的商标或注册商标。
*1“ComfySIL™ 功能安全类别”的详情请参阅封二。

媒体解码器

AAC/WMA/MP3/WAV格式＋SD存储卡＋CD-ROM

Part No.	Supply Voltage (V)	USB	SD	iPod	Serial I/F	Display Information	MP3	WMA	AAC	CD-ROM Mode	CD-ROM File System	MP3 Recording Format	File Search	Audio Output		Package
														Analog	Digital	
BU94605AKV	3.0 to 3.6	USB2.0 Full Speed	MMC SD, miniSD, microSD, SDHC	–	I^{2}C BUS	Folder number, File number, Play time, Folder name, File name, TAG (Artist, Album, Title)	MPEG1, 2, 2.5 LAYER1, 2, 3	WMA9 Standard	MPEG4 AAC-LC	Mode1, Mode2, form1/2, Romeo, Joliet	ISO 9660 Level1, 2	–	Search during the playback	Line	I^{2}S SPDIF	VQFP80

AAC/WMA/MP3/WAV格式＋SD存储卡＋CD-ROM＋MP3录音

Part No.	Supply Voltage (V)	USB	SD	iPod	Serial I/F	Display Information	MP3	WMA	AAC	CD-ROM Mode	CD-ROM File System	MP3 Recording Format	File Search	Audio Output		Package
														Analog	Digital	
BU94702AKV	3.0 to 3.6	USB2.0 Full Speed	MMC SD, miniSD, microSD, SDHC	–	I^{2}C BUS	Folder number, File number, Play time, Folder name, File name, TAG (Artist, Album, Title)	MPEG1, 2, 2.5 LAYER1, 2, 3	WMA9 Standard	MPEG4 AAC-LC	Mode1, Mode2, form1/2, Romeo, Joliet	ISO 9660 Level1, 2	MPEG1 Layer3 Sample Rate: 32, 44.1, 48kHz Bit Rate: 32, 64, 128, 192, 256, 320kHz	Search during the playback	Line	I^{2}S SPDIF	VQFP80

音频转换器

音频编解码器

音频编解码器

Part No.	Supply Voltage (V)	ADC	DAC	Microphone Input	Speaker Output		Headphone Output	Filter		ALC	Package
		ch/bit	ch/bit		Type	Monaural/ Stereo		EQ	Notch		
BU26154MUV	$\mathrm{HV_{DD}}$ 2.7 to 5.5 $\mathrm{LV_{DD}}$ 2.7 to 3.6	1ch/24bit	2ch/24bit	1	AB/D	Monaural	Stereo	✓	✓	✓	VQFN040V6060
BU26156RFS	$\mathrm{HV_{DD}}$ 2.7 to 5.5 $\mathrm{LV_{DD}}$ 2.7 to 3.6	2ch/24bit	2ch/24bit	2	AB/D	Stereo	Stereo	✓	✓	✓	HTSSOP-A44R

音频DAC

PCM 768kHz/32bit, DSD 22.4MHz 立体声 音频D/A转换器

Part No.	Supply Voltage			Output Channels	Peak Output Current (mApp)	Resolution (Bit)	SNR (dB)	THD+N (dB)	Dynamic Range (dB)	Sampling Frequency (kHz)	DSD Clock (MHz)	Package
	AVCC (V)	DVDD (V)	DVDDIO (V)									
MUS-IC **BD34301EKV**	4.5 to 5.5	1.4 to 1.6	3.0 to 3.6	2	9.8	32	130	–115	130	32 to 768	2.8, 5.6, 11.2, 22.4	HTQFP64BV
BD34352EKV	4.5 to 5.5	1.4 to 1.6	3.0 to 3.6	2	6.25	32	126	–112	126	32 to 768	2.8, 5.6, 11.2, 22.4	HTQFP64BV

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视频放大器

复合视频放大器

超小型 WL-CSP 无输出电容器 1ch视频驱动器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara.1 (dB)	Freq. Chara.2 (dB)	Input type	LPF	Mute (Standby) (μA)	Output Capa-less	Max Output Level (V_{P-P})	Video Out→In Change Mode	Package (mm)
BH76906GU	2.5 to 3.45	15	6	−0.2 (4.5MHz)	−26 (18MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	–	VCSP85H 1.6×1.6, H=1.0 Max
BH76912GU		15	12	−0.2 (4.5MHz)	−26 (18MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	–	VCSP85H 1.6×1.6, H=1.0 Max
BH76916GU		15	16.5	−0.2 (4.5MHz)	−26 (18MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	–	VCSP85H 1.6×1.6, H=1.0 Max

无输出电容器 1ch视频驱动器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara.1 (dB)	Freq. Chara.2 (dB)	Input type	LPF	Mute (Standby) (μA)	Output Capa-less	Max Output Level (V_{P-P})	Package
BH76806FVM	2.5 to 3.45	16	6	−0.45 (4.5MHz)	−51 (23.5MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	MSOP8
BH76809FVM		16	9	−0.45 (4.5MHz)	−51 (23.5MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	MSOP8
BH76812FVM		15	12	−0.45 (4.5MHz)	−51 (23.5MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	MSOP8
BH76816FVM		15	16.5	−0.45 (4.5MHz)	−51 (23.5MHz)	Bias (150kΩ)	8th order 4.5MHz	0	✓	5.2	MSOP8

小型/低消耗电流 1ch视频驱动器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara.1 (dB)	Freq. Chara.2 (dB)	Input type	LPF	Mute (Standby) (μA)	Output Capa-less	Max Output Level (V_{P-P})	Video Out→In Change Mode	Package
BH76106HFV	2.6 to 5.5	7	6	0.1 (4.5MHz)	−45 (19MHz)	Clamp	8th order 4.5MHz	0	✓	2.6	–	HVSOF6
BH76109HFV		7	9	0.1 (4.5MHz)	−45 (19MHz)	Clamp	8th order 4.5MHz	0	✓	2.6	–	HVSOF6
BH76112HFV		7	12	0.1 (4.5MHz)	−45 (19MHz)	Clamp	8th order 4.5MHz	0	✓	2.6	–	HVSOF6
BH76206HFV		8	6	−0.3 (6MHz)	−40 (27MHz)	Clamp	8th order 6MHz	0	✓	2.6	–	HVSOF6

内置视频开关 1ch视频驱动器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara. (dB)	Switchers	Input type	Video Driver	Mute	Output Capa-less	Max Output Level (V_{P-P})		Package
										V_{CC}=3V	V_{CC}=5V	
BH76330FVM	2.8 to 5.5	10	6	0 (10MHz)	3 input-1 output	Clamp	✓	✓ (Standby)	✓	2.7	4.6	MSOP8
BH76331FVM		10	6	0 (10MHz)	3 input-1 output	Bias	✓	✓ (Standby)	–	2.8	4.6	MSOP8
BH76360FV		12	6	0 (10MHz)	6 input-1 output	Clamp	✓	✓ (Standby)	✓	2.7	4.6	SSOP-B16
BH76361FV		12	6	0 (10MHz)	6 input-1 output	Bias	✓	✓ (Standby)	–	2.8	4.6	SSOP-B16

视频开关

宽带 1ch视频开关

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara. (dB)	Switchers	Input type	Video Driver	Mute	Crosstalk (dB)	Max Output Level (V_{P-P})		Package
										V_{CC}=3V	V_{CC}=5V	
BH76332FVM	2.8 to 5.5	9	0	0 (30MHz)	3 input-1 output	Clamp	–	✓ (Standby)	−65 (4.43MHz)	1.8	3.8	MSOP8
BH76333FVM		8	0	0 (30MHz)	3 input-1 output	Bias	–	✓ (Standby)	−65 (4.43MHz)	1.9	3.4	MSOP8
BH76362FV		11	0	0 (30MHz)	6 input-1 output	Clamp	–	✓ (Standby)	−65 (4.43MHz)	1.8	3.8	SSOP-B16
BH76363FV		11	0	0 (30MHz)	6 input-1 output	Bias	–	✓ (Standby)	−65 (4.43MHz)	1.9	3.4	SSOP-B16

视频、音频开关

Part No.	Supply Voltage (V)	Video Circuit Current (mA)	Audio Circuit Current (mA)	Video Freq. Chara.1 (dB)	Video Freq. Chara.2 (dB)	Video Amplifier Gain (dB)	Audio Freq. Chara.1 (dB)	Audio Freq. Chara.2 (dB)	Audio Amplifier Gain (dB)	Residual Noise (μVrms)	Package
BH7649KS2	7.5 to 9.5	34	23	0 (6.75MHz)	−30 (27MHz)	−3/−6/0/+3/+6	−0.5 (24kHz)	−26 (96kHz)	−6/0	20	SQFP-T52

其他

隔离放大器

Part No.	Supply Voltage (V)	Circuit Current (mA)	Amplifier Gain (dB)	Freq. Chara. (dB)	ch	Input type	Video Driver	Input Impedance (kΩ)	CMRR (dB)	Max Output Level (V_{P-P})	Package
BH7673G	4.5 to 5.5	4.8	0	0 (10MHz)	1	Bias	–	150	60	3.8	SSOP5

图像校正

面板用图像校正IC

Part No.	Supply Voltage (V)			Image Data Size	Control I/F	Input/Output Digital I/F	Image Adjustment	PWM Output	LVDS Transmitter	Package	Automotive Grade AEC-Q100
	V_{DD} Core	V_{DD} I/O	V_{DD} LVDS								
BU1523KV	1.65 to 1.95	3.0 to 3.6	3.0 to 3.6	Supports up to WVGA+ (864×480)	I^2C BUS	24bit RGB Interface 8bit YUV=4 : 2 : 2 ITU-R BT.656	✓	–	✓	VQFP100	Preparing

内置图像校正的视频编码器

Part No.	Supply Voltage (V)			Image Data Size	Control I/F	Input/Output Digital I/F	Fog Reduction	Video Encoder	Package	Automotive Grade AEC-Q100
	V_{DD} Core	V_{DD} I/O	AV_{DD}							
BU6521KV	1.4 to 1.6	2.7 to 3.6	2.7 to 3.6	ITU-R BT.656	I^2C BUS Serial EEPROM Interface	8bit YUV=4 : 2 : 2 ITU-R BT.656	✓	✓	VQFP48C	YES

图像LSI

视频解码器

(LAPIS Technology产品)

CVBS/S-video 输入型

Part No.	Supply Voltage (V)	Input (Analog)		Output (Digital)	Feature	Operating Temperature (°C)	Package	Automotive Grade*1
		Terminal	Type					
ML86101A	3.3/1.5	CVBS×4 or CVBS×2+S-video×1 or S-video×2	NTSC PAL SECAM	ITU-R BT.656 YUV 8bit	Simple, small	−40 to +85	P-TQFP48 -0707-0.50-ZK6	YES
ML86112	3.3/1.2	CVBS×4 or differential×2	NTSC PAL	MIPI CSI-2 (YUV422-8bit) ITU-R BT.656	Simple, small MIPI output I/P conversion	−40 to +105	P-WQFN32 -0505-0.50-W66	YES
ML86V7668A	3.3/2.5	CVBS×4 or CVBS×1+S-video×3	NTSC PAL SECAM	ITU-R BT.656 YUV 8/16bit RGB 18bit	RGB output	−40 to +85	P-TQFP100 -1414-0.50-ZK6	YES
☆**ML86160**	3.3/1.2	CVBS×4 or differential×2	NTSC PAL High Definition Analog	ITU-R BT.656 MIPI CSI-2 (RGB888, YUV422-8bit) (T.B.D)	High Definition Analog Decoder HD-ACT*2	−40 to +105 (T.B.D)	P-WQFN36 -0606-0.50-xxx (T.B.D)	YES

CVBS/S-video/Component/RGB 输入型

Part No.	Supply Voltage (V)	Input (Analog)		Output (Digital)	Feature	Operating Temperature (°C)	Package	Automotive Grade*1
		Terminal	Type					
ML86V7675	3.3/1.5	CVBS×4 +(Comp or S-video)×1 +Comp×1	NTSC PAL SECAM	ITU-R BT.656 YUV 8bit	WVGA, EGA analog RGB supported	−40 to +85	P-TQFP64 -1010-0.50-ZK6	YES

*1 关于AEC-Q100，请咨询销售人员。
*2 HD-ACT(High Definition-Analog Composite Transport)利用独特的高分辨率技术清晰显示模拟影像。

☆: 开发中

视频编码器

(LAPIS Technology产品)

CVBS 输出型

Part No.	Supply Voltage (V)	Input (Digital)	Output (Analog)		Feature	Operating Temperature (°C)	Package	Automotive Grade*1
			Terminal	Type				
ML86V76580	3.3/1.8	ITU-R BT.656 YUV 8bit	CVBS	NTSC PAL	75Ω drive	−40 to +85	P-TQFP48 -0707-0.50-ZK6	YES
ML86640	3.3	ITU-R BT.656 YUV 8/16/24bit RGB 24bit	CVBS	NTSC PAL	75Ω drive P/I conversion	−40 to +105	P-TQFP48 -0707-0.50-ZK6	YES
☆**ML86660**	3.3 (1.8)/1.2	ITU-R BT.656 YUV 8bit MIPI CSI-2 (RGB565/888, YUV422-8bit) (T.B.D)	CVBS	NTSC PAL High Definition Analog	High Definition Analog Encoder HD-ACT*2	−40 to +105 (T.B.D)	WQFN40 -0606-0.50-xxx (T.B.D)	YES

*1 关于AEC-Q100，请咨询销售人员。
*2 HD-ACT(High Definition-Analog Composite Transport)利用独特的高分辨率技术清晰显示模拟影像。

☆: 开发中

视频接口

(LAPIS Technology产品)

LVDS/MIPI/eDP 输入/输出型

Part No.	Supply Voltage (V)	Input	Output	Feature	Operating Temperature (°C)	Package	Automotive Grade*1
☆**ML86797**	3.3/1.2	Single LVDS (RGB666/888) MIPI CSI-2 (RGB565/888 YUV422-8bit) MIPI DSI (RGB888)	Single/Dual LVDS (RGB666/888)	MIPI CSI-2/DSI to LVDS	−40 to +105 (T.B.D)	P-WQFN64 -0909-0.50-63 (T.B.D)	YES
☆**ML86798**	3.3/1.2	MIPI CSI-2 (RGB565/666/888 YUV422-8bit) MIPI DSI (RGB565/666/888 YUV422-8bit)	MIPI CSI-2 (RGB565/666/888 YUV422-8bit) eDP (RGB565/666/888)	MIPI CSI-2/DSI to eDP MIPI DSI to MIPI CSI-2	−40 to +105 (T.B.D)	P-WQFN64 -0909-0.50-63 (T.B.D)	YES
☆**ML86799**	3.3/1.2	Single/Dual LVDS (RGB666/888)	eDP (RGB565/666/888)	LVDS to eDP	−40 to +105 (T.B.D)	P-WQFN64 -0909-0.50-63 (T.B.D)	YES

*1 关于AEC-Q100，请咨询销售人员。

☆: 开发中

语音合成LSI

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

车载用 语音合成LSI

(LAPIS Technology产品)

存储器内置型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	AEC-Q100 standard
ML22Q532	2.7 to 3.6 or 3.3 to 5.5	4.096 4.000	Built-in External	−40 to +105	Flash 2M	4,096	99sec*2	I^{2}C/ Clock synchronous serial	1.0/ AB-class	4	Rewrite Flash from MCU*4/ Serial Audio Interface/ Failure detection	P-TQFP48 -0707-0.50-Z6K6-MC	YES	✓
ML22Q533					Flash 4M		202sec*2					P-TQFP48 -0707-0.50-Z6K6-MC	YES	✓
ML22Q274	2.0 to 5.5	4.096	Built-in		Flash 692K*1	30/62	28sec*3	Clock synchronous serial	1.0/ D-class	1	Disconnection and short circuit detection function	P-TSSOP20 -0225-0.65-TK6	YES	✓
ML22Q284						30		Stand-alone				P-TSSOP20 -0225-0.65-TK6	YES	✓
ML22Q294						30/62		I^{2}C				P-TSSOP20 -0225-0.65-TK6	YES	✓

存储器外挂型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	AEC-Q100 standard
New **ML22120**	2.7 to 3.6	4.096 4.000	Built-in External	−40 to +105 (+125*5)	External maximum 128M	64	17min*6	I^{2}C/ Clock synchronous serial	–	4	Pitch and volume control 5band Equalizer Serial Audio Interface Failure detection	P-TQFP32 -0707-0.80-ZK6 P-WQFN24 -0404-0.50-A63	YES	–*8
ML22530	2.7 to 3.6 or 3.3 to 5.5	4.096 4.000	Built-in External	−40 to +105	External maximum 128M	4,096	109min*7	I^{2}C/ Clock synchronous serial	1.0/ AB-class	4	Rewrite Flash from MCU*4/Serial Audio Interface/Failure detection	P-TQFP48 -0707-0.50-Z6K6	YES	✓

◎ Ky's Technology HQ-ADPCM是“Ky’s”的高音质语音压缩技术。“Ky’s”是国立大学法人九州工业大学的注册商标。

*1 选择30个短语和选择62个短语时为688Kbit
*2 用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间
*3 用ADPCM2取样，频率为6.4kHz时的最长播放时间
*4 使用外挂存储器(Max 128Mbit)时，用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间
*5 使用时钟同步串行时
*6 使用外挂存储器(Max 128Mbit)时，用16bitPCM取样，频率为8kHz时的最长播放时间
*7 使用外挂存储器(Max 128Mbit)时，用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间
*8 符合AEC-Q100标准(计划)

长时间播放 语音合成LSI

(LAPIS Technology产品)

Flash存储器内置型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time*1	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	Industrial Grade
ML22Q623	2.7 to 3.6 or 3.3 to 5.5	4.096 4.000	Built-in External	−40 to +70	Flash 4M	4,096	202sec	Clock synchronous serial	1.0/ AB-class, D-class	4	Rewrite Flash from MCU/ Failure detection	P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	–	✓
ML22Q624					Flash 8M		406sec					P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	–	✓
ML22Q625					Flash 16M		14min					P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	–	✓
ML22Q626					Flash 32M		27min					P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	–	✓
ML22Q663					Flash 4M		202sec	I^{2}C			Failure detection	P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	–	✓
ML22Q664					Flash 8M		406sec					P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	–	✓
ML22Q665					Flash 16M		14min					P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	–	✓
ML22Q666					Flash 32M		27min					P-TQFP32 -0707-0.80-Z6K6-MC P-WQFN32 -0505-0.50-A63-MC	–	✓

◎ Ky's Technology HQ-ADPCM是“Ky’s”的高音质语音压缩技术。“Ky’s”是国立大学法人九州工业大学的注册商标。

*1 用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间

短时间播放 语音合成LSI

(LAPIS Technology产品)

D类功放内置型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrases	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	Industrial Grade
ML22Q234	2.0 to 5.5	8.192	Built-in	−40 to +85	Flash 676K*1	30/62	34sec*3	Clock synchronous serial	1.0/ D-class	1	Disconnection and short circuit detection function	P-TSSOP20 -0225-0.65-TK6	–	✓
ML22Q244					Flash 692K*2			Stand-alone				P-TSSOP20 -0225-0.65-TK6	–	✓
ML22Q254					Flash 676K*1			I^{2}C				P-TSSOP20 -0225-0.65-TK6	–	✓

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*1 选择30个短语和选择62个短语时为676Kbit
*2 选择30个短语和选择62个短语时为688Kbit
*3 用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间

支持外挂存储器 语音合成LSI

(LAPIS Technology产品)

AB类功放/D类功放内置型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrase	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	Industrial Grade
ML22620	2.7 to 3.6 or 3.3 to 5.5	4.096 4.000	Built-in External	−40 to +85	External maximum 128M	4,096	109min*1	Clock synchronous serial	1.0/ AB-class, D-class	4	Rewrite Flash from MCU/ Failure detection	P-TQFP32 -0707-0.80-Z6K6 P-WQFN32 -0505-0.50-A63	–	✓
ML22660								I^{2}C			Failure detection	P-TQFP32 -0707-0.80-Z6K6 P-WQFN32 -0505-0.50-A63	–	✓

AB类功放内置型

Part No.	Operating Voltage (V)	Operating Frequency (MHz)	Oscillator	Operating Temperature (°C)	ROM Capacity (bit)	Number of Phrase	Maximum Playback Time	CPU I/F	SP Amplifier Output (W)/ Class	Number of Mixing (Internal) (ch)	Others	Package	Automotive Grade	Industrial Grade
ML22420	2.7 to 5.5	4.096	External	−40 to +85	External maximum 128M	1,024	87min*2	Clock synchronous serial	0.7/ AB-class	4	–	P-SSOP30 -56-0.65-ZK6	–	✓
ML22460								I^{2}C				P-SSOP30 -56-0.65-ZK6	–	✓

◎HQ-ADPCM是“Ky’s”的高音质语音压缩技术。“Ky’s”是国立大学法人九州工业大学的注册商标。

*1 使用外挂存储器(Max 128Mbit)时，用HQ-ADPCM取样，频率为6.4kHz时的最长播放时间
*2 使用外挂存储器(Max 128Mbit)时，用ADPCM2取样，频率为6.4kHz时的最长播放时间

微控制器

*1 U16：RISC方式 16bit CPU nX-U16/100核
*2 U8：RISC方式 8bit CPU nX-U8/100核

⇨ 点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

通用微控制器(16bit)

多用途 ML62Q1000系列(U16*1)

ML62Q1300组 ROM容量：16KB to 64KB 引脚个数：16pin to 32pin

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)
						Input	Output	Input/Output	High Speed	Low Speed			
ML62Q1323	1.6 to 5.5	Flash	16K	2K	2K	–	–	12	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	41ns/ 30.5µs	4.3µA (Internal RC oscillation)	−40 to +105
ML62Q1324			24K										
ML62Q1325			32K										
ML62Q1333	1.6 to 5.5	Flash	16K	2K	2K	–	–	16	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	41ns/ 30.5µs	4.3µA (Internal RC oscillation)	−40 to +105
ML62Q1334			24K										
ML62Q1335			32K										
ML62Q1345	1.6 to 5.5	Flash	32K	2K	4K	–	–	20	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	41ns/ 30.5µs	4.3µA (Internal RC oscillation)	−40 to +105
ML62Q1346			48K										
ML62Q1347			64K										
ML62Q1365	1.6 to 5.5	Flash	32K	2K	4K	–	–	28	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	41ns/ 30.5µs	4.3µA (Internal RC oscillation)	−40 to +105
ML62Q1366			48K										
ML62Q1367			64K										

*1 U16：RISC方式的16bit CPU nX-U16/100核
*2 工业设备用途的详情请垂询本公司。

ML62Q1000系列品名构成说明

M L	6 2	Q	1 3 6 7	□	–	N N N	T B	X X X X
①	②	③	④	⑤		⑥	⑦	⑧

品名编号

①元器件类型
ML: 逻辑产品
②CPU内核类型
62: 16bit CPU nX-U16/100
③ROM类型
Q: 闪存ROM

⑤选项代码
None～x：对每个产品进行设定
⑥ROM代码
NNN ：留空
001～xxx：定制代码

⑦封装代码
GD: WQFN
MB: SSOP
TD: TSSOP
TB: TQFP
GA: QFP
⑧公司内部代码

④型号代码

13xx: ML62Q1300组
2x: 16pin
3x: 20pin
4x: 24pin
6x: 32pin

x3: ROM 16KB
x4: ROM 24KB
x5: ROM 32KB
x6: ROM 48KB
x7: ROM 64KB

15xx: ML62Q1500组
3x: 48pin
4x: 52pin
5x: 64pin
6x: 80pin
7x: 100pin

x0: ROM 32KB
x1: ROM 48KB
x2: ROM 64KB
x3: ROM 96KB
x4: ROM 128KB
x5: ROM 160KB
x6: ROM 192KB
x7: ROM 256KB

17xx: ML62Q1700组
(内置LCD驱动器)
0x: 48pin
1x: 52pin
2x: 64pin
3x: 80pin
4x: 100pin

x0: ROM 32KB
x1: ROM 48KB
x2: ROM 64KB
x3: ROM 96KB
x4: ROM 128KB
x5: ROM 160KB
x6: ROM 192KB
x7: ROM 256KB
x8: ROM 384KB
x9: ROM 512KB

18xx: ML62Q1800组
5x: 64pin
6x: 80pin
7x: 100pin

x8: ROM 384KB
x9: ROM 512KB

(LAPIS Technology产品)

16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*2
					I^2C	SSIO	UART						
4 (8bit×8)	4 (TMR, PWM, Capture)	1	10bit×6 (SA type)	–	Master/ Slave×1, Master×1	UART Full Duplex/ SSIO×2		VLS×1	–	8	Safety function, Multiplier/Divider, Comparator×1, DMA	P-SSOP16-0225-0.65-TK6 P-WQFN16-0404-0.50-63	✓
												P-SSOP16-0225-0.65-TK6 P-WQFN16-0404-0.50-63	✓
												P-SSOP16-0225-0.65-TK6 P-WQFN16-0404-0.50-63	✓
4 (8bit×8)	4 (TMR, PWM, Capture)	1	10bit×8 (SA type)	–	Master/ Slave×1, Master×1	UART Full Duplex/ SSIO×2		VLS×1	–	8	Safety function, Multiplier/Divider, Comparator×1, DMA	P-TSSOP20-0225-0.65-TK6	✓
												P-TSSOP20-0225-0.65-TK6	✓
												P-TSSOP20-0225-0.65-TK6	✓
6 (8bit×12)	4 (TMR, PWM, Capture)	1	10bit×8 (SA type)	8bit×1	Master/ Slave×1, Master×1	UART Full Duplex/ SSIO×2		VLS×1	–	8	Safety function, Multiplier/Divider, Comparator×1, DMA	P-WQFN24-0404-0.50-A63	✓
												P-WQFN24-0404-0.50-A63	✓
												P-WQFN24-0404-0.50-A63	✓
6 (8bit×12)	4 (TMR, PWM, Capture)	1	10bit×8 (SA type)	8bit×1	Master/ Slave×1, Master×1	UART Full Duplex/ SSIO×2		VLS×1	–	8	Safety function, Multiplier/Divider, Comparator×1, DMA	P-WQFN32-0505-0.50-A63 P-TQFP32-0707-0.80-ZK6	✓
												P-WQFN32-0505-0.50-A63 P-TQFP32-0707-0.80-ZK6	✓
												P-WQFN32-0505-0.50-A63 P-TQFP32-0707-0.80-ZK6	✓

通用微控制器(16bit)

多用途 ML62Q1000系列(U16[*1])

ML62Q1500组 ROM容量：32KB to 256KB 引脚个数：48pin to 100pin

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)
						Input	Output	Input/Output	High Speed	Low Speed			
ML62Q1530	1.6 to 5.5	Flash	32K	4K	8K	2	–	42	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.7/3.0µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1531			48K										
ML62Q1532			64K										
ML62Q1533			96K										
ML62Q1534			128K										
ML62Q1540	1.6 to 5.5	Flash	32K	4K	8K	2	–	46	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.7/3.0µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1541			48K										
ML62Q1542			64K										
ML62Q1543			96K										
ML62Q1544			128K										
ML62Q1550	1.6 to 5.5	Flash	32K	4K	8K	2	–	58	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.7/3.0µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1551			48K										
ML62Q1552			64K										
ML62Q1553			96K										
ML62Q1554			128K										
ML62Q1555			160K		16K	2						5.5/4.5µA (Internal RC oscillation/ Crystal oscillation)	
ML62Q1556			192K										
ML62Q1557			256K										
ML62Q1563	1.6 to 5.5	Flash	96K	4K	16K	2	–	72	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	5.5/4.5µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1564			128K										
ML62Q1565			160K										
ML62Q1566			192K										
ML62Q1567			256K										
ML62Q1573	1.6 to 5.5	Flash	96K	4K	16K	2	–	92	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	5.5/4.5µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1574			128K										
ML62Q1575			160K										
ML62Q1576			192K										
ML62Q1577			256K										
ML62Q1543C	1.6 to 5.5	Flash	96K	4K	8K	2	–	46	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/Crystal oscillation)	−40 to +105
ML62Q1544C			128K										
ML62Q1553C	1.6 to 5.5	Flash	96K	4K	8K	2	–	58	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/Crystal oscillation)	−40 to +105
ML62Q1554C			128K										
ML62Q1563C	1.6 to 5.5	Flash	96K	4K	8K	2	–	74	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/Crystal oscillation)	−40 to +105
ML62Q1564C			128K										

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*1 U16：RISC方式的16bit CPU nX-U16/100核

*2 工业设备用途的详情请垂询本公司。

(LAPIS Technology产品)

16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*2
					I²C	SSIO	UART						
6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/Slave×1, Master×2	UART Full Duplex/ SSIO×2		VLS×1	—	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP48-0707-0.50-ZK6	✓
												P-TQFP48-0707-0.50-ZK6	✓
												P-TQFP48-0707-0.50-ZK6	✓
												P-TQFP48-0707-0.50-ZK6	✓
												P-TQFP48-0707-0.50-ZK6	✓
6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/Slave×1, Master×2	UART Full Duplex/ SSIO×2		VLS×1	—	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP52-1010-0.65-ZK6	✓
												P-TQFP52-1010-0.65-ZK6	✓
												P-TQFP52-1010-0.65-ZK6	✓
												P-TQFP52-1010-0.65-ZK6	✓
												P-TQFP52-1010-0.65-ZK6	✓
6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/Slave×1, Master×2	UART Full Duplex/ SSIO×2		VLS×1	—	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
8 (8bit×16)	8 (TMR, PWM, Capture)	1	10bit×16 (SA type)	8bit×2	Master/Slave×1, Master×2	UART Full Duplex/ SSIO×6		VLS×1	—	12	Safety function, Multiplier/Divider, Comparator×2, DMA	P-QFP80-1414-0.65-ZK6	✓
												P-QFP80-1414-0.65-ZK6	✓
												P-QFP80-1414-0.65-ZK6	✓
												P-QFP80-1414-0.65-ZK6	✓
												P-QFP80-1414-0.65-ZK6	✓
8 (8bit×16)	8 (TMR, PWM, Capture)	1	10bit×16 (SA type)	8bit×2	Master/Slave×1, Master×2	UART Full Duplex/ SSIO×6		VLS×1	—	12	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
												P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
												P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
												P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
												P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/Slave×1, Master×2	UART Full Duplex/ SSIO×3		VLS×1	—	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP52-1010-0.65-ZK6	✓
												P-TQFP52-1010-0.65-ZK6	✓
6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/Slave×1, Master×2	UART Full Duplex/ SSIO×4		VLS×1	—	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/Slave×1, Master×2	UART Full Duplex/ SSIO×4		VLS×1	—	12	Safety function, Multiplier/Divider, Comparator×2, DMA	P-QFP80-1414-0.65-ZK6	✓
												P-QFP80-1414-0.65-ZK6	✓

通用微控制器(16bit)

多用途 ML62Q1000系列(U16*1)

搭载LCD驱动器 ML62Q1700组 ROM容量：32KB to 512KB 引脚个数：48pin to 100pin

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)
						Input	Output	Input/Output	High Speed	Low Speed			
ML62Q1700	1.6 to 5.5	Flash	32K	4K	8K	2	–	37	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.9/3.3µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1701			48K										
ML62Q1702			64K										
ML62Q1703			96K										
ML62Q1704			128K										
ML62Q1710	1.6 to 5.5	Flash	32K	4K	8K	2	–	41	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.9/3.3µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1711			48K										
ML62Q1712			64K										
ML62Q1713			96K										
ML62Q1714			128K										
ML62Q1720	1.6 to 5.5	Flash	32K	4K	8K	2	–	53	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.9/3.3µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1721			48K										
ML62Q1722			64K										
ML62Q1723			96K										
ML62Q1724			128K										
ML62Q1725			160K		16K							5.7/4.5µA (Internal RC oscillation/ Crystal oscillation)	
ML62Q1726			192K										
ML62Q1727			256K										
ML62Q1728			384K	8K	32K							6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)	
ML62Q1729			512K										
ML62Q1733	1.6 to 5.5	Flash	96K	4K	16K	2	–	67	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	5.7/4.5µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1734			128K										
ML62Q1735			160K										
ML62Q1736			192K										
ML62Q1737			256K										
ML62Q1738			384K	8K	32K							6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)	
ML62Q1739			512K										
ML62Q1743	1.6 to 5.5	Flash	96K	4K	16K	2	–	87	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	5.7/4.5µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1744			128K										
ML62Q1745			160K										
ML62Q1746			192K										
ML62Q1747			256K										
ML62Q1748			384K	8K	32K							6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)	
ML62Q1749			512K										
ML62Q1713C	1.6 to 5.5	Flash	96K	4K	8K	2	–	41	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1714C			128K										
ML62Q1723C	1.6 to 5.5	Flash	96K	4K	8K	2	–	53	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1724C			128K										
ML62Q1733C	1.6 to 5.5	Flash	96K	4K	8K	2	–	69	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	4.3/3.0µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1734C			128K										

*1 U16：RISC方式的16bit CPU nX-U16/100核
*2 工业设备用途的详情请垂询本公司。

(LAPIS Technology产品)

16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*2
					I^{2}C	SSIO	UART						
6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×2		VLS×1	Max 192dot 24seg× 8com	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP48-0707-0.50-ZK6	✓
												P-TQFP48-0707-0.50-ZK6	✓
												P-TQFP48-0707-0.50-ZK6	✓
												P-TQFP48-0707-0.50-ZK6	✓
												P-TQFP48-0707-0.50-ZK6	✓
6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×2		VLS×1	Max 216dot 27seg× 8com	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP52-1010-0.65-ZK6	✓
												P-TQFP52-1010-0.65-ZK6	✓
												P-TQFP52-1010-0.65-ZK6	✓
												P-TQFP52-1010-0.65-ZK6	✓
												P-TQFP52-1010-0.65-ZK6	✓
6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×2		VLS×1	Max 280dot 35seg× 8com	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
8 (8bit×16)	8 (TMR, PWM, Capture)	1	10bit×16 (SA type)	8bit×2	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×6		VLS×1	Max 360dot 45seg× 8com	12	Safety function, Multiplier/Divider, Comparator×2, DMA	P-QFP80-1414-0.65-ZK6	✓
												P-QFP80-1414-0.65-ZK6	✓
												P-QFP80-1414-0.65-ZK6	✓
												P-QFP80-1414-0.65-ZK6	✓
												P-QFP80-1414-0.65-ZK6	✓
												P-QFP80-1414-0.65-ZK6	✓
												P-QFP80-1414-0.65-ZK6	✓
8 (8bit×16)	8 (TMR, PWM, Capture)	1	10bit×16 (SA type)	8bit×2	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×6		VLS×1	Max 480dot 60seg× 8com	12	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
												P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
												P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
												P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
												P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
												P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
												P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×3		VLS×1	Max 216dot 27seg× 8com	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP52-1010-0.65-ZK6	✓
												P-TQFP52-1010-0.65-ZK6	✓
6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×4		VLS×1	Max 280dot 35seg× 8com	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×4		VLS×1	Max 360dot 45seg× 8com	12	Safety function, Multiplier/Divider, Comparator×2, DMA	P-QFP80-1414-0.65-ZK6	✓
												P-QFP80-1414-0.65-ZK6	✓

通用微控制器(16bit)

多用途 ML62Q1000系列(U16*1)

ML62Q1800组 ROM容量：384KB to 512KB 引脚个数：64pin to 100pin

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)
						Input	Output	Input/Output	High Speed	Low Speed			
ML62Q1858	1.6 to 5.5	Flash	384K	8K	32K	2	–	58	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1859			512K										
ML62Q1868	1.6 to 5.5	Flash	384K	8K	32K	2	–	72	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1869			512K										
ML62Q1878	1.6 to 5.5	Flash	384K	8K	32K	2	–	92	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5µs	6.0/4.5µA (Internal RC oscillation/ Crystal oscillation)	−40 to +105
ML62Q1879			512K										

*1 U16：RISC方式的16bit CPU nX-U16/100核
*2 工业设备用途的详情请垂询本公司。

(LAPIS Technology产品)

16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*2
					I^2C	SSIO	UART						
6 (8bit×12)	6 (TMR, PWM, Capture)	1	10bit×12 (SA type)	8bit×1	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×2		VLS×1	—	10	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
												P-TQFP64-1010-0.50-ZK6 P-QFP64-1414-0.80-ZK6	✓
8 (8bit×16)	8 (TMR, PWM, Capture)	1	10bit×16 (SA type)	8bit×2	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×6		VLS×1	—	12	Safety function, Multiplier/Divider, Comparator×2, DMA	P-QFP80-1414-0.65-ZK6	✓
												P-QFP80-1414-0.65-ZK6	✓
8 (8bit×16)	8 (TMR, PWM, Capture)	1	10bit×16 (SA type)	8bit×2	Master/ Slave×1, Master×2	UART Full Duplex/ SSIO×6		VLS×1	—	12	Safety function, Multiplier/Divider, Comparator×2, DMA	P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓
												P-TQFP100-1414-0.50-ZK6 P-QFP100-1420-0.65-BK6	✓

通用微控制器(16bit)

低功耗 ML62Q2000系列/ML62Q2500组(U16*1)

ROM容量：64KB to 128KB　引脚个数：32pin to 48pin

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT*2)	Operating Temperature (°C)
						Input	Output	Input/Output	High Speed	Low Speed			
ML62Q2502	1.8 to 5.5	Flash	64K	4K	8K	3	–	24	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ External oscillation)	41ns/ 30.5μs	0.6μA (Internal RC oscillation)	−40 to +105
ML62Q2504			128K										
ML62Q2522	1.8 to 5.5	Flash	64K	4K	8K	3	–	32	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ External oscillation)	41ns/ 30.5μs	0.6μA (Internal RC oscillation)	−40 to +105
ML62Q2524			128K										
ML62Q2532	1.8 to 5.5	Flash	64K	4K	8K	3	–	40	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ External oscillation)	41ns/ 30.5μs	0.6μA (Internal RC oscillation)	−40 to +105
ML62Q2534			128K										

*1 U16：RISC方式的16bit CPU nX-U16/100核
*2 HALT-D模式时。
*3 工业设备用途的详情请垂询本公司。

通用微控制器(16bit)

具备语音播放功能 ML62Q2000系列/ML62Q2700组(U16*1)

搭载LCD驱动器 ROM容量：64KB to 256KB　引脚个数：48pin to 100pin

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT*2)	Operating Temperature (°C)
						Input	Output	Input/Output	High Speed	Low Speed			
New ML62Q2702	1.8 to 5.5	Flash	64K	4K	8K	3	–	35	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	0.7μA (Internal RC oscillation)	−40 to +105
New ML62Q2703			96K										
New ML62Q2712	1.8 to 5.5	Flash	64K	4K	8K	3	–	39	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	0.7μA (Internal RC oscillation)	−40 to +105
New ML62Q2713			96K										
New ML62Q2722	1.8 to 5.5	Flash	64K	4K	8K	3	–	51	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	0.7μA (Internal RC oscillation)	−40 to +105
New ML62Q2723			96K										
New ML62Q2725	1.8 to 5.5	Flash	160K	4K	16K	3	–	51	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	0.9μA (Internal RC oscillation)	−40 to +105
New ML62Q2726			192K										
New ML62Q2727			256K										
New ML62Q2735	1.8 to 5.5	Flash	160K	4K	16K	3	–	65	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	0.9μA (Internal RC oscillation)	−40 to +105
New ML62Q2736			192K										
New ML62Q2737			256K										
New ML62Q2745	1.8 to 5.5	Flash	160K	4K	16K	3	–	85	24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41ns/ 30.5μs	0.9μA (Internal RC oscillation)	−40 to +105
New ML62Q2746			192K										
New ML62Q2747			256K										

*1 U16：RISC方式的16bit CPU nX-U16/100核
*2 HALT-D模式时。
*3 工业设备用途的详情请垂询本公司。

ML62Q2000系列品名构成说明

M L 6 2 Q 2 5 0 2 □ – N N N T B X X X X

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

品名编号

①元器件类型
ML: 逻辑产品
②CPU内核类型
62: 16bit CPU　nX-U16/100
③ROM类型
Q: 闪存ROM

⑤选项代码
None～x：对每个产品进行设定
⑥ROM代码
NNN　　：留空
001～xxx：定制代码

⑦封装代码
GD: WQFN
TB: TQFP
GA: QFP
⑧公司内部代码

④型号代码

25xx: ML62Q2500组
0x: 32pin
2x: 40pin
3x: 48pin

x2: ROM 64KB
x4: ROM 128KB

27xx: ML62Q2700组(内置LCD驱动器)
0x: 48pin
1x: 52pin
2x: 64pin
3x: 80pin
4x: 100pin

x2: ROM 64KB
x3: ROM 96KB
x5: ROM 160KB
x6: ROM 192KB
x7: ROM 256KB

(LAPIS Technology产品)

16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*3
					I^{2}C	SSIO	UART						
6	2 (TMR, PWM, Capture)	1	12bit×14 (SA type)	–	Master/ Slave×1, Master×1	2	Full Duplex ×3	VLS×1	–	8	Safety function, Multiplier/Divider	P-TQFP32-0707-0.80-ZK6 P-WQFN32-0505-0.50-A63	✓
												P-TQFP32-0707-0.80-ZK6 P-WQFN32-0505-0.50-A63	✓
6	2 (TMR, PWM, Capture)	1	12bit×14 (SA type)	–	Master/ Slave×1, Master×1	2	Full Duplex ×3	VLS×1	–	8	Safety function, Multiplier/Divider	P-WQFN40-0606-0.50-63	✓
												P-WQFN40-0606-0.50-63	✓
6	2 (TMR, PWM, Capture)	1	12bit×14 (SA type)	–	Master/ Slave×1, Master×1	2	Full Duplex ×3	VLS×1	–	8	Safety function, Multiplier/Divider	P-TQFP48-0707-0.50-ZK6 P-WQFN48-0707-0.50-63	✓
												P-TQFP48-0707-0.50-ZK6 P-WQFN48-0707-0.50-63	✓

(LAPIS Technology产品)

16bit Timer	16bit Multi Functions Timer	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*3
					I^{2}C	SSIO	UART						
6	6 (TMR, PWM, Capture)	1	12bit×12 (SA type)	–	Master/ Slave×1, Master×2	3	Full Duplex ×2	VLS×1	Max 192dot 24seg× 8com	9	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	P-TQFP48-0707-0.50-ZK6 P-WQFN48-0707-0.50-63	✓
												P-TQFP48-0707-0.50-ZK6 P-WQFN48-0707-0.50-63	✓
6	6 (TMR, PWM, Capture)	1	12bit×12 (SA type)	–	Master/ Slave×1, Master×2	3	Full Duplex ×2	VLS×1	Max 216dot 27seg× 8com	9	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	P-TQFP52-1010-0.65-ZK6	✓
												P-TQFP52-1010-0.65-ZK6	✓
6	6 (TMR, PWM, Capture)	1	12bit×12 (SA type)	–	Master/ Slave×1, Master×2	3	Full Duplex ×2	VLS×1	Max 280dot 35seg× 8com	9	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6	✓
												P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6	✓
8	8 (TMR, PWM, Capture)	1	12bit×12 (SA type)	–	Master/ Slave×1, Master×2	7	Full Duplex ×6	VLS×1	Max 280dot 35seg× 8com	9	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6	✓
												P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6	✓
												P-QFP64-1414-0.80-ZK6 P-TQFP64-1010-0.50-ZK6	✓
8	8 (TMR, PWM, Capture)	1	12bit×16 (SA type)	–	Master/ Slave×1, Master×2	7	Full Duplex ×6	VLS×1	Max 360dot 45seg× 8com	9	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	P-QFP80-1414-0.65-ZK6	✓
												P-QFP80-1414-0.65-ZK6	✓
												P-QFP80-1414-0.65-ZK6	✓
8	8 (TMR, PWM, Capture)	1	12bit×16 (SA type)	–	Master/ Slave×1, Master×2	7	Full Duplex ×6	VLS×1	Max 480dot 60seg× 8com	9	Safety function, Multiplier/ Divider, Speech playback function/ ADPCM2 decoder	P-QFP100-1420-0.65-BK6 P-TQFP100-1414-0.50-ZK6	✓
												P-QFP100-1420-0.65-BK6 P-TQFP100-1414-0.50-ZK6	✓
												P-QFP100-1420-0.65-BK6 P-TQFP100-1414-0.50-ZK6	✓

开关电源控制微控制器(16bit)

电源控制用 ML62Q20xx组(U16*1)

ROM容量：16KB to 48KB 引脚个数：20pin to 48pin

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature*2 (°C)
						Input	Output	Input/Output	High Speed	Low Speed			
New **ML62Q2033**	4.5 to 5.5	Flash	16K	4K	2K	1	–	16	16MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	62.5ns/ 30.5µs	90µA (Internal RC oscillation)	−40 to +115
New **ML62Q2035**			32K										
New **ML62Q2043**	4.5 to 5.5	Flash	16K	4K	2K	1	–	20	16MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	62.5ns/ 30.5µs	90µA (Internal RC oscillation)	−40 to +115
New **ML62Q2045**			32K										
☆**ML62Q2055**	4.5 to 5.5	Flash	32K	8K	4K	1	–	28	16MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	62.5ns/ 30.5µs	TBD (Internal RC oscillation)	−40 to +125
☆**ML62Q2056**			48K										
☆**ML62Q2065**	4.5 to 5.5	Flash	32K	8K	4K	1	–	44	16MHz (PLL oscillation)	32.768kHz (Internal RC oscillation)	62.5ns/ 30.5µs	TBD (Internal RC oscillation)	−40 to +125
☆**ML62Q2066**			48K										

*1 U16：RISC方式的16bit CPU nX-U16/100核
*2 工作温度(结点)
*3 工业设备用途的详情请垂询本公司。
☆: 开发中。本目录中的信息，如遇产品更新等其他原因而发生变更，恕不另行通知。

开关电源控制微控制器(16bit) 品名构成说明

M	L	6	2	Q	2	0	4	5		–	N	N	N	G	D	x	x	x	x
①		②		③	④				⑤		⑥			⑦		⑧			

品名编号

①元器件类型
ML: 逻辑产品

②CPU内核类型
62: 16bit CPU nX-U16/100

③ROM类型
Q: 闪存ROM

④型号代码
20xx: ML62Q20xx组

3x: 20pin	x3: ROM 16KB
4x: 24pin	x5: ROM 32KB
5x: 32pin	x6: ROM 48KB
6x: 48pin	

⑤选项代码
None～x : 对每个产品进行设定

⑥ROM代码
NNN : 留空
001～xxx: 定制代码

⑦封装代码
GD: WQFN
TD: TSSOP
TB: TQFP

⑧公司内部代码

(LAPIS Technology产品)

16bit Timer	Operational timer (16bit timer)	Operational timer (8bit timer)	WDT	ADC (method)	DAC	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*3
						I^{2}C	SSIO	UART						
1	CH: 6/ OUTPUT: 10 (PWM, Capture)	–	1	12bit×5 (SA type)	8bit×2	Master/ Slave×1	–	Full Duplex/ Half Duplex×2	LLD×1	–	4	Safety function, Multiplier/Divider, Programable-Gain-Amp×1, Analog comparator×3	P-TSSOP20-0225-0.65-TK6	✓
													P-TSSOP20-0225-0.65-TK6	✓
1	CH: 6/ OUTPUT: 13 (PWM, Capture)	–	1	12bit×5 (SA type)	8bit×2	Master/ Slave×1	–	Full Duplex/ Half Duplex×2	LLD×1	–	4	Safety function, Multiplier/Divider, Programable-Gain-Amp×1, Analog comparator×3	P-WQFN24-0404-0.50-A63	✓
													P-WQFN24-0404-0.50-A63	✓
1	CH: 6/ OUTPUT: 13 (PWM, Capture)	CH: 6/ OUTPUT: 15 (PWM, Capture)	1	12bit×13 (SA type)	8bit×2 9bit×2	Master/ Slave×1	–	Full Duplex/ Half Duplex×3	LLD×1	–	6	Safety function, Multiplier/Divider, Programable-Gain-Amp×2, Analog comparator×4	P-TQFP32-0707-0.80-ZK6	✓
													P-TQFP32-0707-0.80-ZK6	✓
1	CH: 6/ OUTPUT: 20 (PWM, Capture)	CH: 6/ OUTPUT: 24 (PWM, Capture)	1	12bit×13 (SA type)	8bit×2 9bit×2	Master/ Slave×1	–	Full Duplex/ Half Duplex×3	LLD×1	–	6	Safety function, Multiplier/Divider, Programable-Gain-Amp×2, Analog comparator×4	P-TQFP48-0707-0.50-ZK6	✓
													P-TQFP48-0707-0.50-ZK6	✓

语音播放微控制器(8bit)

搭载大功率功放 ML610Q300组(U8*1)

ROM容量：96KB to 256KB　引脚个数：32pin to 64pin

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	Memory for Sound	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)
							Input	Output	Input/ Output	High Speed	Low Speed			
ML610Q305	2.0 to 5.5	Flash	96K	2K	Flash ROM	1K	1	3	12	8.192MHz	32.768kHz (Internal RC oscillation)	0.122µs/ 30.5µs	2.0µA	−40 to +85
ML610Q306									15					
ML610Q327	2.0 to 5.5	Flash	192K	2K	Flash ROM	4K	—	6	26	8.192MHz	32.768kHz (Internal RC oscillation)	0.122µs/ 30.5µs	2.0µA	−40 to +85
ML610Q338	2.0 to 5.5	Flash	256K	2K	Flash ROM	4K	—	6	30	8.192MHz	32.768kHz (Internal RC oscillation)	0.122µs/ 30.5µs	2.0µA	−40 to +85
ML610Q339									42					

◎ HQ-ADPCM是“Ky’s”的高音质语音压缩技术。“Ky’s”是国立大学法人九州工业大学的注册商标。

*1 U8：RISC方式的8bit CPU nX-U8/100核
*2 工业设备用途的详情请垂询本公司。

ML610Q300 group系列品名构成说明

M L | 6 1 0 | Q | 3 0 6 | □ — N N N | G D | x x x x

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

品名编号

①元器件类型
ML: 逻辑产品

②CPU内核类型
610: 8bit CPU　nX-U8/100

③ROM类型
Q: 闪存ROM

④型号代码
3xx: Built-in Speech Playback function

⑤选项代码
None～x：对每个产品进行设定

⑥ROM代码
NNN　　：留空
001～xxx：定制代码

⑦封装代码
GD: WQFN
TB: TQFP

⑧公司内部代码

(LAPIS Technology产品)

8bit Timer	PWM	WDT	ADC (method)	Serial Port			Supply Voltage Detection	LCD Driver	External Interrupt Sources	SP Amp Output (W)/ Class	Others	Package	Industrial Grade*2
				I^{2}C	SSIO	UART							
4 (16bit×2)	–	1	10bit×3 (SA type)	Master/ Slave×1	2	Half Duplex ×1	LLD×1	–	9	1.0 (@5V)/ D class	Speech playback function/ ADPCM2 HQ-ADPCM decoder/ Built-in speaker Amplifier	P-WQFN32-0505-0.50-A63 P-TQFP32-0707-0.80-ZK6	✓
			10bit×4 (SA type)									P-WQFN36-0606-0.50-A63	✓
4 (16bit×2)	3	1	10bit×8 (SA type)	Master/ Slave×1	2	Half Duplex ×2	LLD×1	–	8	1.0 (@5V)/ D class	Speech playback function/ ADPCM2 HQ-ADPCM decoder/ Built-in speaker Amplifier	P-TQFP48-0707-0.50-ZK6	✓
4 (16bit×2)	3	1	10bit×8 (SA type)	Master/ Slave×1	2	Half Duplex ×2	LLD×1	–	8	1.0 (@5V)/ D class	Speech playback function/ ADPCM2 HQ-ADPCM decoder/ Built-in speaker Amplifier	P-TQFP52-1010-0.65-ZK6	✓
												P-TQFP64-1010-0.50-ZK6	✓

USB、安全微控制器(32bit)

数据记录仪用 ML630Q400组(Arm® Cortex®-M0+)

搭载LCD驱动器 ROM容量：64KB to 128KB 引脚个数：100pin

Part No.	Operating Voltage (V)	ROM type	ROM Capacity (Byte)	Data Flash Capacity (Byte)	RAM Capacity (Byte)	Port			Operating Frequency (Max)		Minimum Instruction Execution Time	Current Consumption (Typ@HALT)	Operating Temperature (°C)	Co-processor for Multiplication and Division	8bit Timer	16bit Multi Functions Timer
						Input	Output	Input/ Output	High Speed	Low Speed						
ML630Q464	1.8 to 3.6	Flash	64K	2K	8K	–	–	38	16MHz (Internal RC oscillation) 24MHz (PLL oscillation)	32.768kHz (Internal RC oscillation/ Crystal oscillation)	41.7ns/ 30.5µs	0.8µA (Crystal oscillation)	−40 to +85	32bit multiplier	8 (16bitx4)	4
ML630Q466			128K		16K											

◎Arm及Cortex是ARM Limited(或其子公司)在EU或其他国家的注册商标。
*1 工业设备用途的详情请垂询本公司。

ML630Q400系列品名构成说明

①	②	③	④	⑤	⑥	⑦	⑧
M L	6 3 0	Q	4 6 4	□ —	N N N	T B	x x x x

品名编号（①～⑤）

①元器件类型
ML: 逻辑产品

②CPU内核类型
630: 32bit CPU Arm® Cortex®-M0+

③ROM类型
Q: 闪存ROM

④型号代码
4xx: Low Power

⑤选项代码
None～x：对每个产品进行设定

⑥ROM代码
NNN : 留空
001～xxx : 定制代码

⑦封装代码
TB: TQFP

⑧公司内部代码

(LAPIS Technology产品)

PWM	Capture	WDT	ADC (method)	Serial Port				Supply Voltage Detection	LCD Driver	External Interrupt Sources	Others	Package	Industrial Grade*1
				I^{2}C	SSIO (SPI)	UART	USB						
16bit×4 (use 16bit Timer)	16bit×4 (use 16bit Timer)	1	24bit×2 (RC type) 12bit×12 (SA type)	Master/ Slave ×2	2	Full Duplex ×2	1	VLS×1, LLD×1	Max 400dot 50seg× 8com	8	AES 128bit HW accelerator (CBC, CTR, CTR), Random generator, DMA, RTC, Analog comparator×2, 1kHz Timer	P-TQFP100-1414-0.50-ZK6	✓
												P-TQFP100-1414-0.50-ZK6	✓

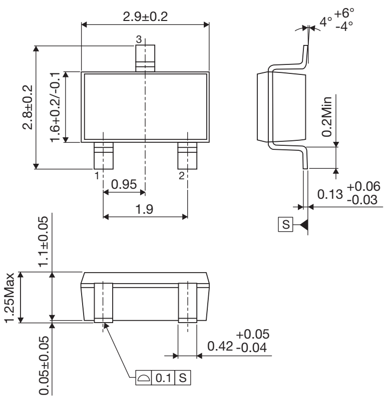
ROHM封装

Small封装

(单位 : mm)

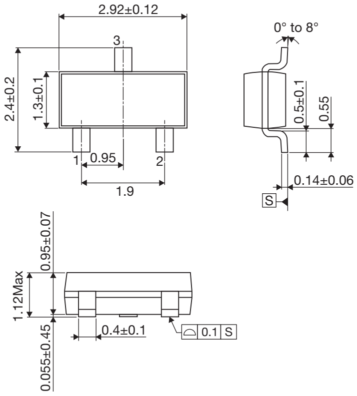
SOP封装

SSOP3



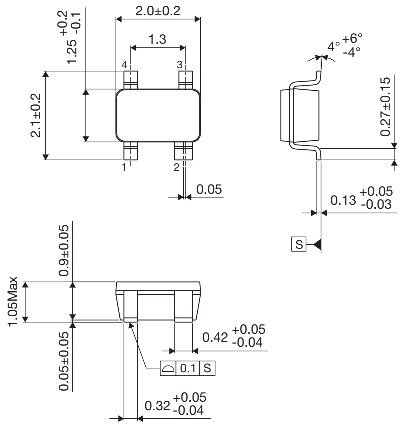
Taping: 3,000pcs

SSOP3A



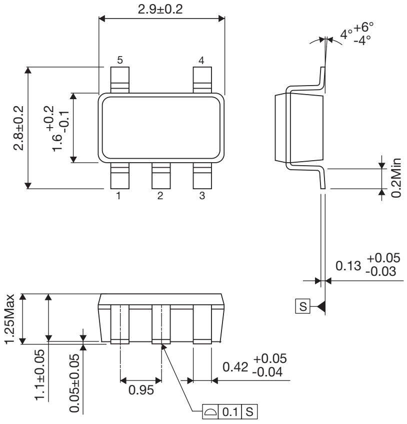
Taping: 3,000pcs

SOP4



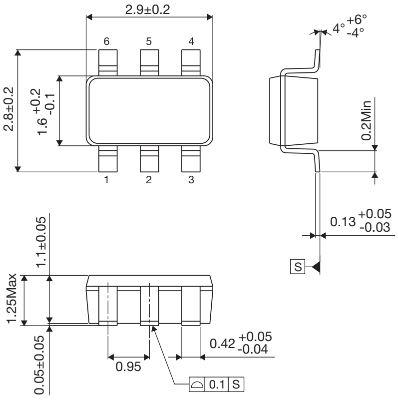
Taping: 3,000pcs

SSOP5



Taping: 3,000pcs

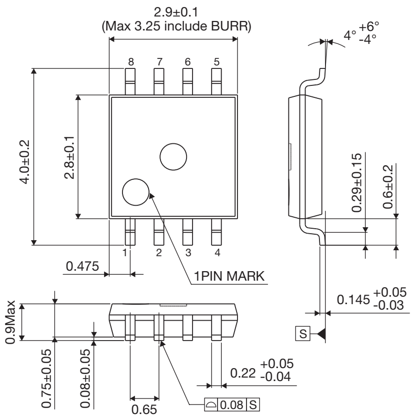
SSOP6



Taping: 3,000pcs

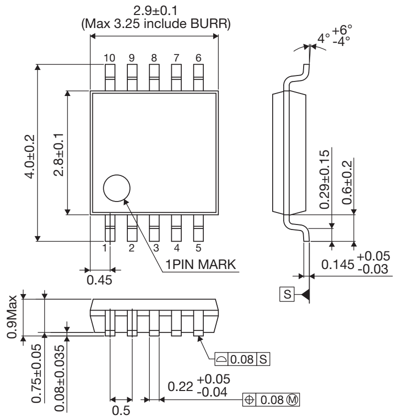
MSOP封装

MSOP8



Taping: 3,000pcs

MSOP10



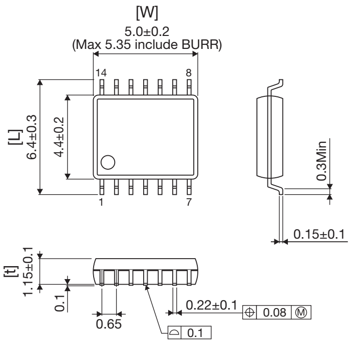
Taping: 3,000pcs

注：LAPIS Technology产品的封装请参照“LSI封装(LAPIS Technology产品)”。

SOP封装

(单位 : mm)

SSOP Package (for SSOP-B14)



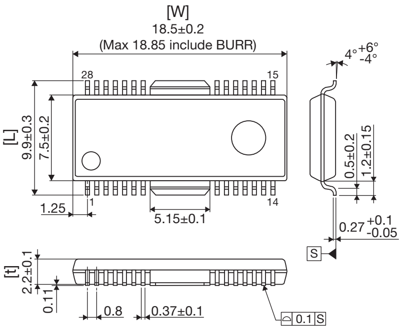
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	Package (pcs) taping
SOP Package Pin Pitch: 1.27mm	**SOP8**	8	6.2	5.0	1.61	2,500
	SOP-JW8		6.0	4.9	1.65	2,500
	SOP14	14	6.2	8.7	1.61	2,500
	SOP-J14		6.0	8.65	1.65	2,500
	SOP16	16	6.2	10.0	1.61	2,500
	SOP-J16A		6.0	9.9	1.55	2,500
	SOP18	18	7.8	11.2	1.91	2,000
	SOP20A	20	10.3	12.8	2.5	1,500
	SOP24	24	7.8	15.0	1.91	2,000
	SOP28	28	9.9	18.5	2.31	1,500
	SOP-J8	8	6.0	4.9	1.55	2,500
SSOP-A Package Pin Pitch: 0.8mm	**SSOP-A16**	16	6.2	6.6	1.61	2,500
	SSOP-A20	20	7.8	8.7	1.91	2,000
	SSOP-A24	24	7.8	10.0	1.9	2,000
	SSOP-A32	32	7.8	13.6	1.91	2,000
SSOP-B Package Pin Pitch: 0.65mm	**SSOP-B8**	8	6.4	3.0	1.25	2,500
	SSOP-B10W	10	10.2	3.5	1.9	1,500
	SSOP-B14	14	6.4	5.0	1.25	2,500
	SSOP-B16	16	6.4	5.0		2,500
	SSOP-B20	20	6.4	6.5		2,500
	SSOP-B20W		8.1	6.5	1.81	2,000
	SSOP-B24	24	7.6	7.8	1.25	2,000
	SSOP-B28	28	7.6	10.0		2,000
	SSOP-B28W		10.4	9.2	2.4	1,500
	SSOP-B40	40	7.8	13.6	1.9	2,000
TSSOP-B Package Pin Pitch: 0.65mm	**TSSOP-B8**	8	6.4	3.0	1.2	3,000
	TSSOP-B8J		4.9	3.0	1.1	2,500
	TSSOP-B14J	14	6.4	5.0	1.2	2,500
TSSOP-C Package Pin Pitch: 0.5mm	**TSSOP-C48V**	48	8.1	12.5	1.0	2,000

注：尺寸详图请确认罗姆官网。

HSOP封装(双侧带散热片)

(单位 : mm)

HSOP Package (for HSOP-M28)



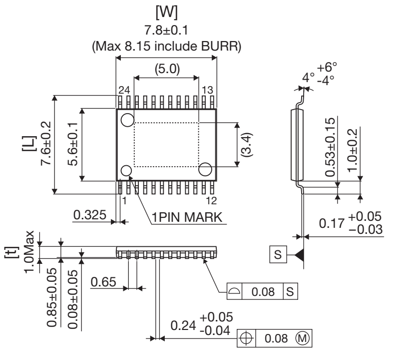
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	Package (pcs) taping
HSOP Package Pin Pitch: 1.27mm	**HSOP20**	20	7.8	14.9	2.1	2,000
HSOP Package Pin Pitch: 0.8mm	**HSOP25**	25	7.8	13.6	2.01	2,000
HSOP-M Package Pin Pitch: 0.8mm	**HSOP-M28**	28	9.9	18.5	2.31	1,500
	HSOP-M36	36	9.9	18.5	2.4	1,500

注：尺寸详图请确认罗姆官网。

HTSOP封装(背面带散热片)

(单位 : mm)

HTSSOP Package (for HTSSOP-B24)



	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	back heat sink (mm)	Package (pcs) taping
HTSOP Package Pin Pitch: 1.27mm	**HTSOP-J8**	8	6.0	4.9	1.0	2.4x3.2	2,500
	HTSOP-J8ES	8	6.0	4.9		1.8x2.2	2,500
HTSSOP-A Package Pin Pitch: 0.8mm	**HTSSOP-A44**	44	9.5	18.5	1.0	5.0x6.0	1,500
	HTSSOP-A44R		9.5	18.5		5.0x6.0 (surface)	1,500
HTSSOP-B Package Pin Pitch: 0.65mm	**HTSSOP-B16**	16	6.4	5.0	1.0	2.4x3.0	2,500
	HTSSOP-B20	20	6.4	6.5		2.4x4.0	2,500
	HTSSOP-B24	24	7.6	7.8		3.4x5.0	2,000
	HTSSOP-B28	28	6.4	9.7		2.9x5.5	2,500
	HTSSOP-B30	30	7.6	10.0		3.7x5.8	2,000
	HTSSOP-B40	40	7.8	13.6		3.4x8.4	2,000
	HTSSOP-B54	54	9.5	18.5		5.0x6.0	1,500
HTSSOP-C Package Pin Pitch: 0.5mm	**HTSSOP-C48**	48	8.1	12.5	1.0	4.2x5.0	2,000
	HTSSOP-C48R	48	8.1	12.5		4.2x5.0 (surface)	2,000
	HTSSOP-C64	64	8.1	17.2	1.1	3.05x4.45	2,000
HSSOP-C Package Pin Pitch: 0.5mm	**HSSOP-C16**	16	6.0	4.9	1.7	about 2.5x4.12	2,500

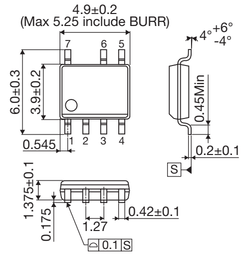
注：尺寸详图请确认罗姆官网。

注：LAPIS Technology产品的封装请参照“LSI封装(LAPIS Technology产品)”。

SOP特殊封装

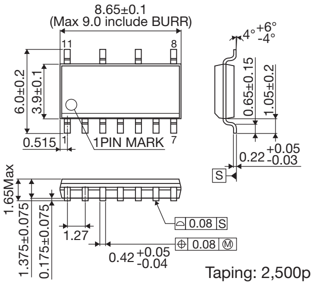
(单位 : mm)

SOP-J7S



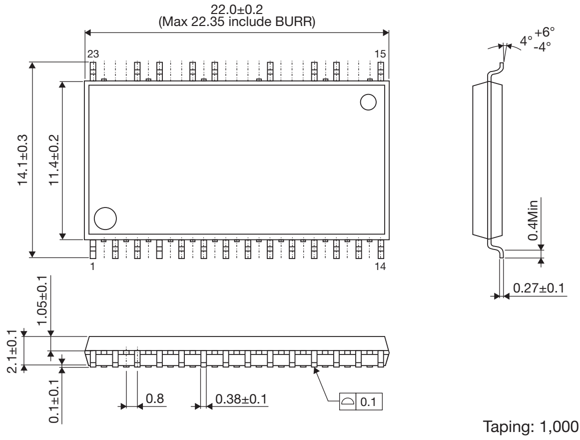
Taping: 2,500pcs

SOP-J11



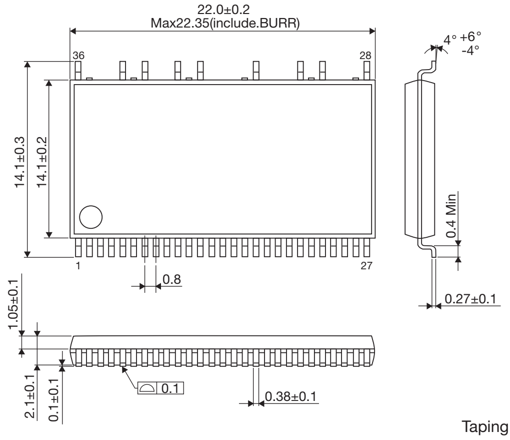
Taping: 2,500pcs

SSOP-A54_23



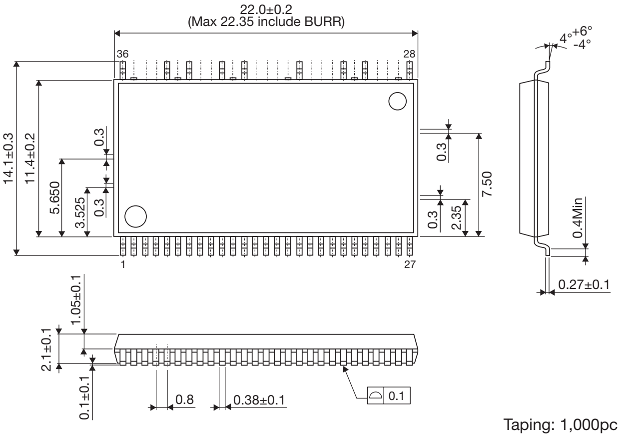
Taping: 1,000pcs

SSOP-A54_36



Taping: 1,000pcs

SSOP-A54_36A



Taping: 1,000pcs

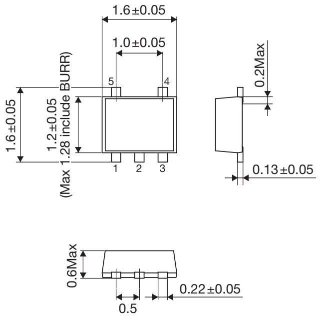
注：LAPIS Technology产品的封装请参照“LSI封装(LAPIS Technology产品)”。

Non-lead封装

(单位 : mm)

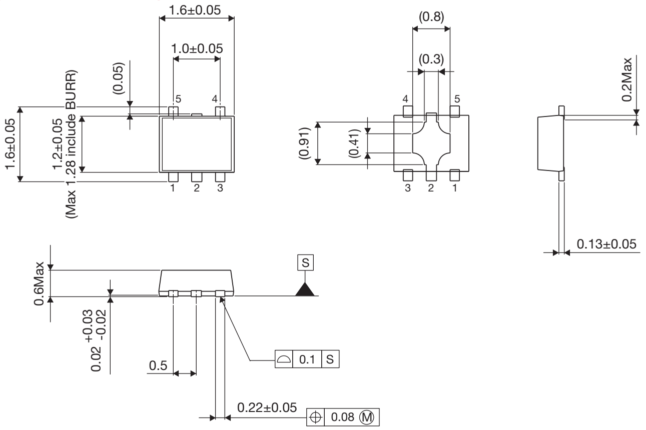
VSOF封装

VSOF5



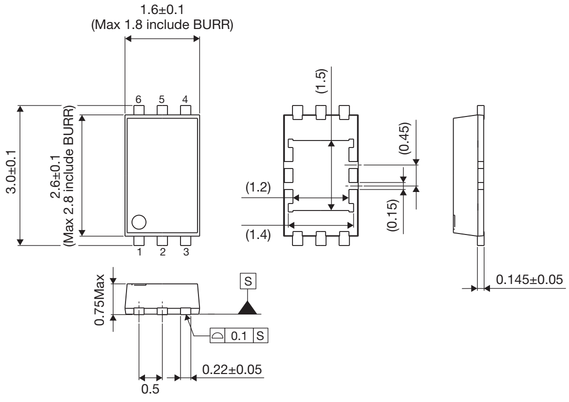
Taping: 3,000pcs

HVSOF5(With back heat sink)



Taping: 3,000pcs

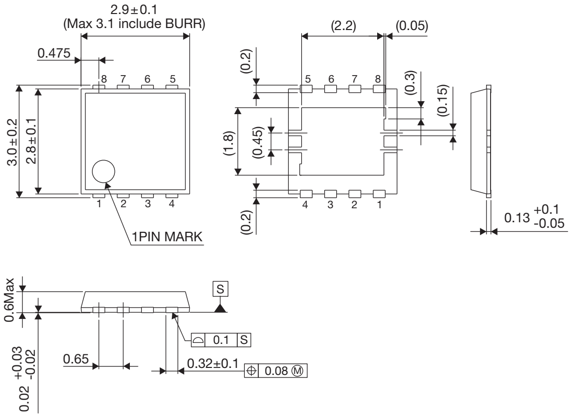
HVSOF6(With back heat sink)



Taping: 3,000pcs

HSON封装(背面带散热片)

HSON8



Taping: 3,000pcs

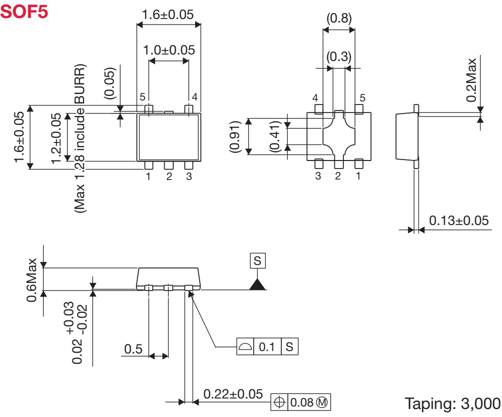
注：LAPIS Technology产品的封装请参照"LSI封装(LAPIS Technology产品)"。

Optical Non-lead封装(背面带散热片)

(单位 : mm)

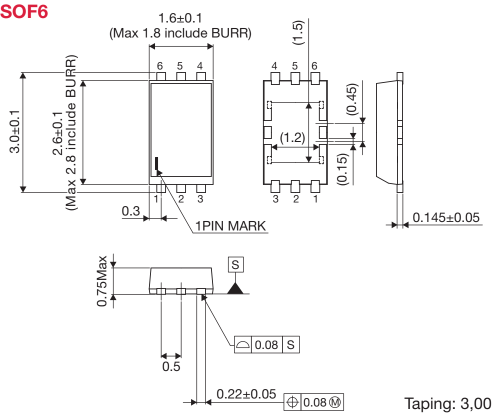
WSOF封装

WSOF5



Taping: 3,000pcs

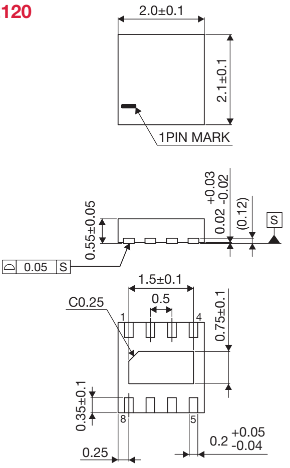
WSOF6



Taping: 3,000pcs

WSON封装

WSON008X2120



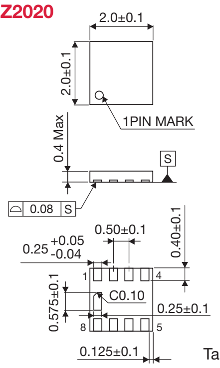
Taping: 4,000pcs

MMP封装

(单位 : mm)

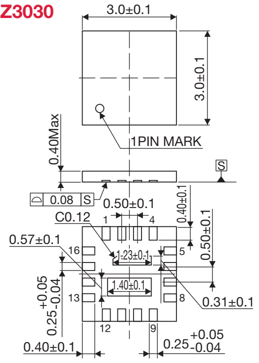
VMMP封装

VMMP08LZ2020



Taping: 4,000pcs

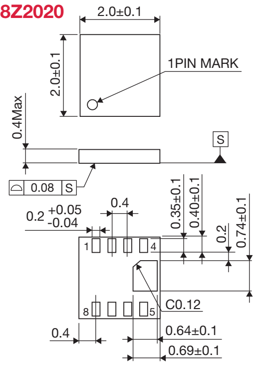
VMMP16LZ3030



Taping:
2,500pcs

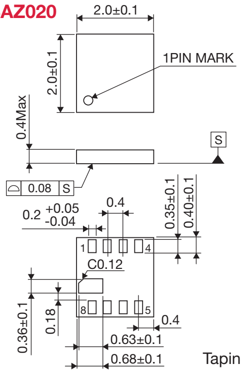
UMMP封装

UMMP008Z2020



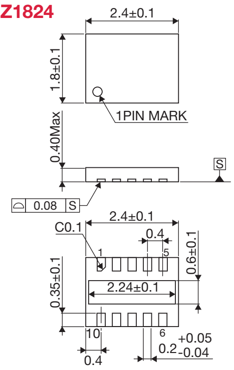
Taping:
4,000pcs

UMMP008AZ020



Taping: 4,000pcs

UMMP10LZ1824



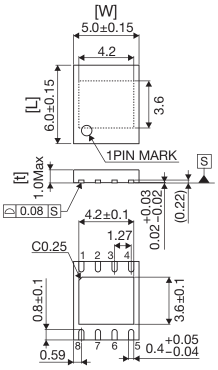
Taping:
2,500pcs

注：LAPIS Technology产品的封装请参照“LSI封装(LAPIS Technology产品)”。

SON封装(背面带散热片)

(单位 : mm)

SON Package (for SON008V5060)



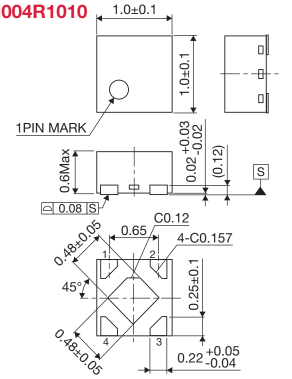
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	back heat sink (mm)	Package (pcs) taping
SON Package Pin Pitch: 1.27mm	**SON008V5060**	8	6.0	5.0	1.0	3.6×4.2	2,000
SSON Package Pin Pitch: 0.65mm	**SSON004X1010**	4	1.0	1.0	0.6	0.48×0.48	5,000
	SSON004X1216		1.6	1.2		0.8×0.75	5,000
USON Package Pin Pitch: 0.4mm	**USON014X3020**	14	2.0	3.0	0.6	0.8×2.5	4,000
	USON016X3315	16	1.5	3.3		0.6×2.9	4,000
VSON Package Pin Pitch: 0.5mm	**VSON008V2030**	8	3.0	2.0	1.0	1.4×1.5	3,000
	VSON008X2020		2.0	2.0	0.6	0.8×1.5	4,000
	VSON008X2030		3.0	2.0		1.4×1.5	4,000
	VSON08AX2030		3.0	2.0		1.4×1.5	4,000
	VSON010V3030	10	3.0	3.0	1.0	1.2×2.0	3,000
	VSON010X3020		2.0	3.0	0.6	0.64×2.0	4,000
	VSON010X3030		3.0	3.0		1.2×2.0	4,000
	VSON10FV3030		3.0	3.0	1.0	1.2×2.0	3,000

注：尺寸详图请确认罗姆官网。

SON特殊封装(背面带散热片)

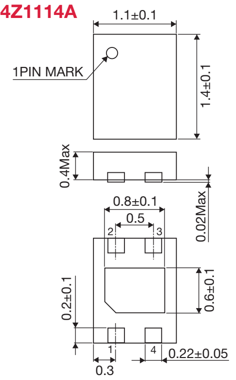
(单位 : mm)

SSON004R1010



Taping: 5,000pcs

VSON04Z1114A

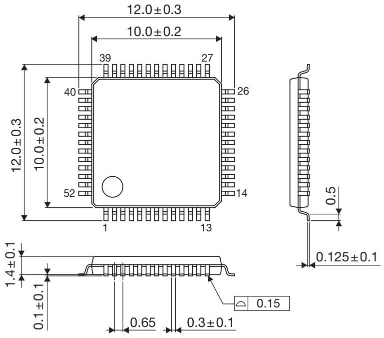


Taping: 5,000pcs

QFP封装

(单位 : mm)

SQFP Package (for SQFP-T52)



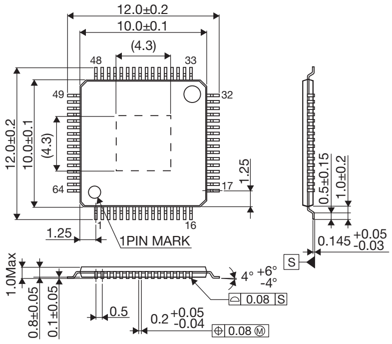
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	Package (pcs)	
						Tray	Taping
SQFP-T Package Pin Pitch: 0.65mm	**SQFP-T52**	52	12.0	12.0	1.5	1,000	1,000
	SQFP-T64	64	14.0	14.0		1,000	–
	SQFP-T80C	80	16.0	16.0		500	–
TQFP Package Pin Pitch: 0.5mm	**TQFP48V**	48	9.0	9.0	1.2	1,000	1,500
	TQFP64V	64	12.0	12.0	1.1	1,000	1,000
	TQFP100V	100	16.0	16.0	1.2	500	500
VQFP Package Pin Pitch: 0.5mm	**VQFP48C**	48	9.0	9.0	1.6	1,000	1,500
	VQFP64	64	12.0	12.0		1,000	1,000
	VQFP80	80	14.0	14.0		1,000	1,000
	VQFP100	100	16.0	16.0		500	500

注：尺寸详图请确认罗姆官网。

QFP封装(背面带散热片)

(单位 : mm)

HTQFP Package (for HTQFP64AV)



	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	back heat sink (mm)	Package (pcs)	
							Tray	Taping
HTQFP Package Pin Pitch: 0.5mm	**HTQFP48V**	48	9.0	9.0	1.0	4.4×4.4	–	1,500
	HTQFP64AV	64	12.0	12.0		4.3×4.3	–	1,000
	HTQFP64BV		12.0	12.0		6.5×6.5	–	1,000
HTQFP Package Pin Pitch: 0.4mm	**HTQFP128UA**	128	16.0	16.0	1.2	6.6×6.6	–	900
HQFP Package Pin Pitch: 0.5mm	**HQFP144VM**	144	22.0	22.0	1.6	6.0×6.0	–	60

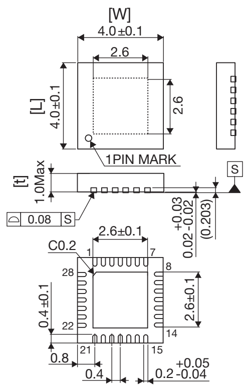
注：尺寸详图请确认罗姆官网。

注：LAPIS Technology产品的封装请参照“LSI封装(LAPIS Technology产品)”。

QFN封装(背面带散热片)

(单位 : mm)

UQFN Package (for UQFN28V4040A)



	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	back heat sink (mm)	Package (pcs) taping
SQFN Package Pin Pitch: 0.65mm	**SQFN016V4040**	16	4.0	4.0	1.0	2.1×2.1	2,500
UQFN Package Pin Pitch: 0.4mm	**UQFN28V4040A**	28	4.0	4.0	1.0	2.6×2.6	2,500
	UQFN036V5050	36	5.0	5.0		2.7×2.7	2,500
	UQFN040V5050	40	5.0	5.0		3.3×3.3	2,500
	UQFN056V7070	56	7.0	7.0		4.7×4.7	1,500
	UQFN56BV7070		7.0	7.0		4.0×4.0	1,500
	UQFN68CV8080	68	8.0	8.0		4.3×4.3	1,000
	UQFN88MV0100	88	10.0	10.0		7.8×7.8	1,000
VQFN Package Pin Pitch: 0.5mm	**VQFN11X3535A**	11	3.5	3.5	0.6	—	2,500
	VQFN016V3030	16	3.0	3.0	1.0	1.4×1.4	3,000
	VQFN16FV3030		3.0	3.0		1.4×1.4	3,000
	VQFN16KV3030		3.0	3.0		1.4×1.4	3,000
	VQFN16Z3030A		3.0	3.0	0.4	1.8×1.8	4,000
	VQFN20	20	4.2	4.2	0.95	—	2,500
	VQFN20FV3535		3.5	3.5	1.0	2.05×2.05	2,500
	VQFN20FV4040		4.0	4.0		2.1×2.1	2,500
	VQFN20PV3535		3.5	3.5		2.05×2.05	2,500
	VQFN20QV3535		3.5	3.5		2.05×2.05	2,500
	VQFN020V4040		4.0	4.0		2.1×2.1	2,500
	VQFN24FV4040	24	4.0	4.0		2.4×2.4	2,500
	VQFN24SV4040		4.0	4.0		2.4×2.4	2,500
	VQFN024V4040		4.0	4.0		2.4×2.4	2,500
	VQFN28FV5050	28	5.0	5.0		2.7×2.7	2,500
	VQFN28SV5050		5.0	5.0		2.7×2.7	2,500
	VQFN028V5050		5.0	5.0		2.7×2.7	2,500
	VQFN32FBV050	32	5.0	5.0		3.4×3.4	2,500
	VQFN32FAV050		5.0	5.0		3.4×3.4	2,500
	VQFN32SV5050		5.0	5.0		3.4×3.4	2,500
	VQFN032V5050		5.0	5.0		3.4×3.4	2,500
	VQFN36	36	6.2	6.2	0.95	—	2,500
	VQFN036V6060		6.0	6.0	1.0	3.6×3.6	2,000
	VQFN40W6060A	40	6.0	6.0	0.8	4.5×4.5	2,000
	VQFN040V6060		6.0	6.0	1.0	3.7×3.7	2,000
	VQFN40FV6060		6.0	6.0		4.4×4.4	2,000
	VQFN046V8080	46	8.0	8.0		6.1×3.85	1,000
	VQFN48V7070A	48	7.0	7.0	0.9	5.3×5.3	1,500
	VQFN48MCV070		7.0	7.0	1.0	5.6×5.6	1,500
	VQFN48FV7070		7.0	7.0		3.2×3.2	1,500
	VQFN048V7070		7.0	7.0		4.7×4.7	1,500
	VQFN56FCV080	56	8.0	8.0		4.5×4.5	1,000
	VQFN56AV8080		8.0	8.0		3.4×3.4	1,000
	VQFN56FV8080		8.0	8.0		5.5×5.5	1,000
WQFN Package Pin Pitch: 0.5mm	**WQFN12X2520A**	12	2.5	2.0	0.5	—	4,000

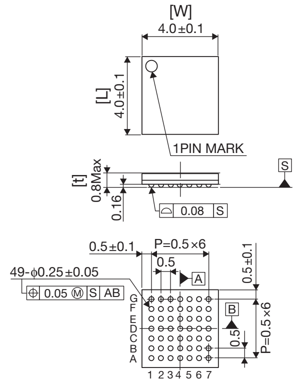
注：尺寸详图请确认罗姆官网。

注：LAPIS Technology产品的封装请参照“LSI封装(LAPIS Technology产品)”。

BGA封装

(单位 : mm)

VBGA Package (for VBGA049W040A)



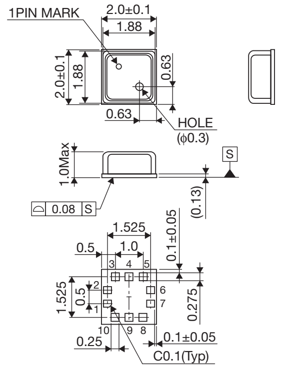
	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	Package (pcs) taping
SBGA Package Pin Pitch: 0.65mm	**SBGA072T070A**	72	7.0	7.0	1.2	1,500
VBGA Package Pin Pitch: 0.5mm	**VBGA048W040**	48	4.0	4.0	0.9	2,500
	VBGA049W040A	49	4.0	4.0	0.8	2,500
	VBGA064T050A	64	5.0	5.0	1.2	2,500
	VBGA099W060	99	6.0	6.0	0.9	2,000

注：尺寸详图请确认罗姆官网。

特殊封装

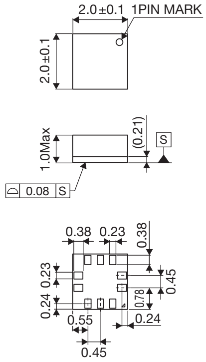
(单位 : mm)

CLGA10V020A



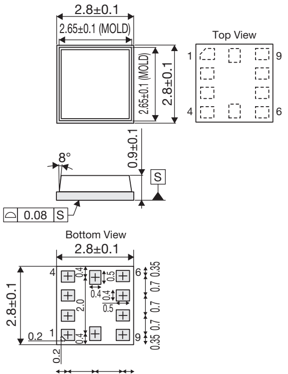
Taping: 3,000pcs

MLGA010V020A



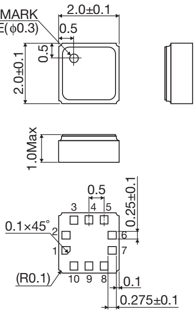
Taping: 2,500pcs

WLGA010V28



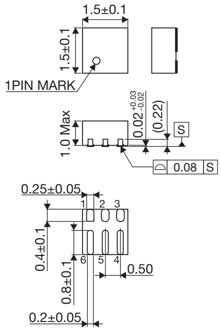
Taping: 3,000pcs

RLGA10VG020T



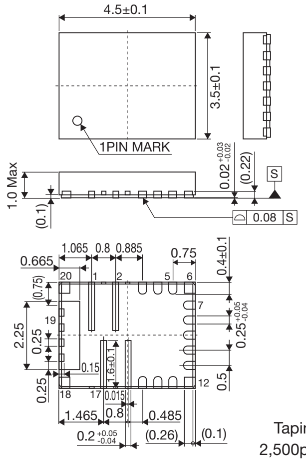
Taping: 3,000pcs

VFN006V1515A



Taping: 3,000pcs

VFN20FV4535



Taping:
2,500pcs

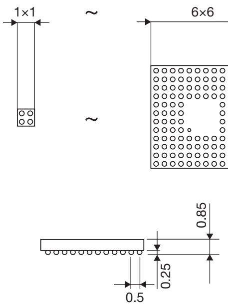
注：LAPIS Technology产品的封装请参照“LSI封装(LAPIS Technology产品)”。

WL-CSP封装

(单位 : mm)

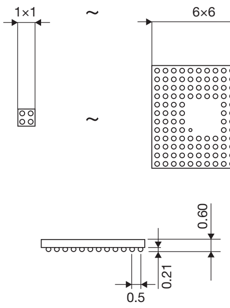
VCSP <引脚间距：0.5mm>

VCSP85H



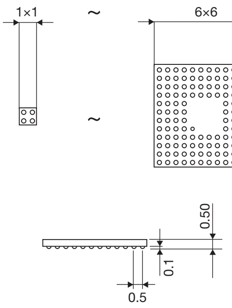
2.8mm square size less than: 3,000pcs
2.81mm square size or more: 2,500pcs

VCSP60N



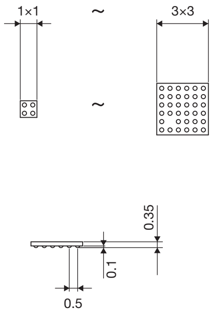
2.8mm square size less than: 3,000pcs
2.81mm square size or more: 2,500pcs

VCSP50L



2.8mm square size less than: 3,000pcs
2.81mm square size or more: 2,500pcs

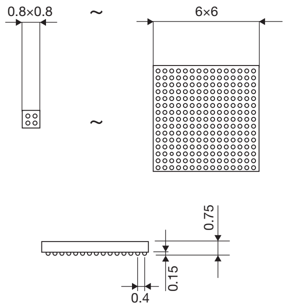
VCSP35L



2.8mm square size less than: 3,000pcs
2.81mm square size or more: 2,500pcs
Embossed carrier tape: 3,000pcs

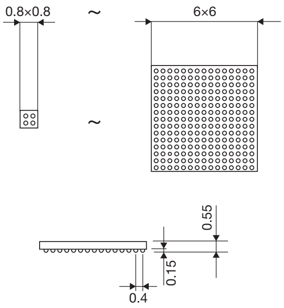
UCSP <引脚间距：0.4mm>

UCSP75M



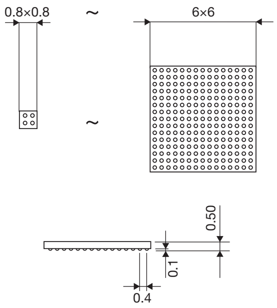
2.8mm square size less than: 3,000pcs
2.81mm square size or more: 2,500pcs

UCSP55M



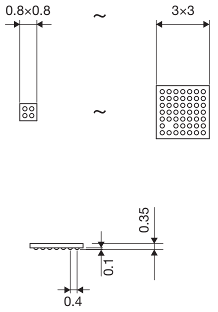
2.8mm square size less than: 3,000pcs
2.81mm square size or more: 2,500pcs

UCSP50L



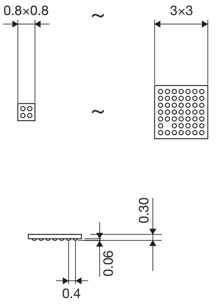
2.8mm square size less than: 3,000pcs
2.81mm square size or more: 2,500pcs

UCSP35L



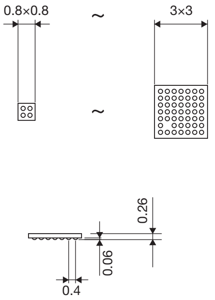
2.8mm square size less than: 3,000pcs
2.81mm square size or more: 2,500pcs
Embossed carrier tape: 3,000pcs

UCSP30L



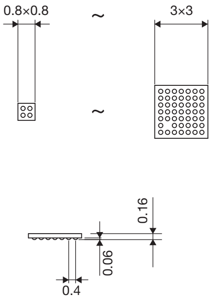
2.8mm square size less than: 3,000pcs
2.81mm square size or more: 2,500pcs
Embossed carrier tape: 3,000pcs

UCSP25L



Embossed carrier tape: 3,000pcs

UCSP16X



Embossed carrier tape: 3,000pcs

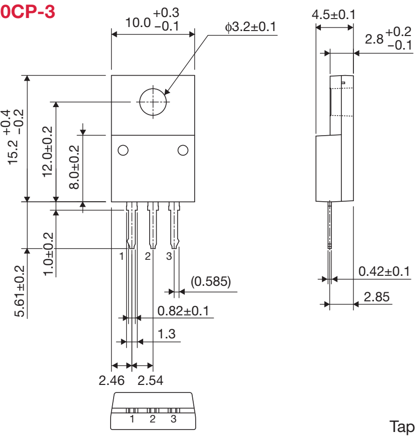
注：LAPIS Technology产品的封装请参照“LSI封装(LAPIS Technology产品)”。

Power封装

(单位 : mm)

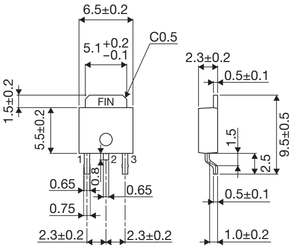
Power-3pin

TO220CP-3



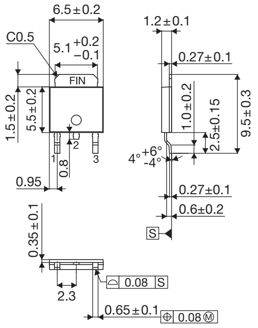
Taping: 500pcs

TO252-3



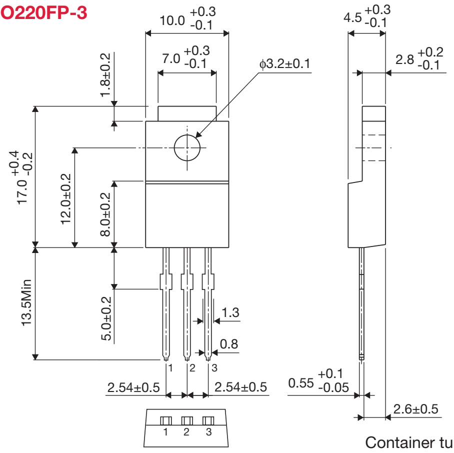
Taping: 2,000pcs

TO252S-3



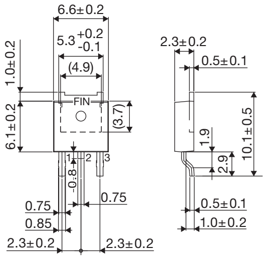
Taping: 2,000pcs

TO220FP-3



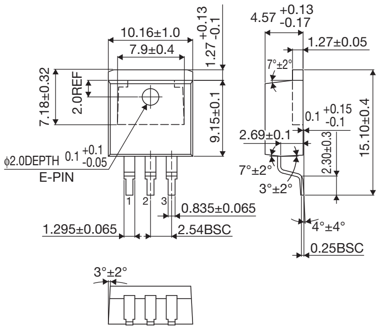
Container tube: 500pcs

TO252-J3



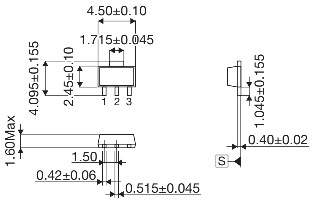
Taping: 2,000pcs

TO263-3



Taping: 500pcs

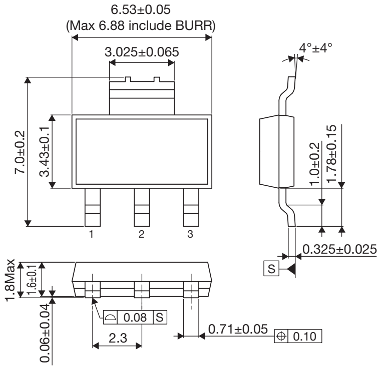
SOT89-3K



Taping: 1,000pcs

Power-4pin

SOT223-4



Taping: 2,000pcs

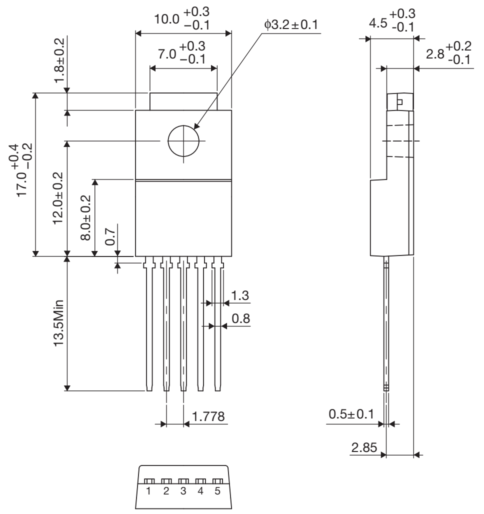
注：LAPIS Technology产品的封装请参照“LSI封装(LAPIS Technology产品)”。

Power封装

(单位 : mm)

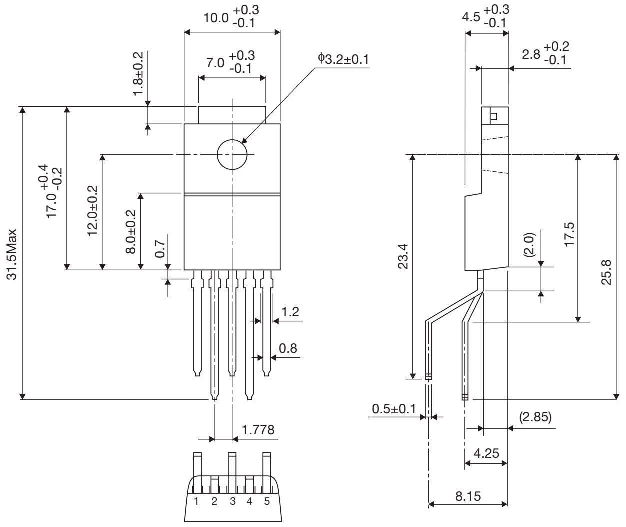
Power-5pin

TO220FP-5



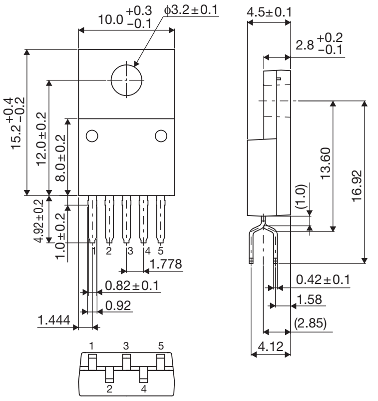
Tube: 500pcs

TO220FP-5 (V5)



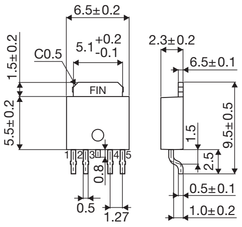
Tube: 500pcs

TO220CP-V5



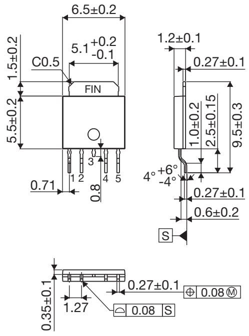
Taping: 500pcs

TO252-5



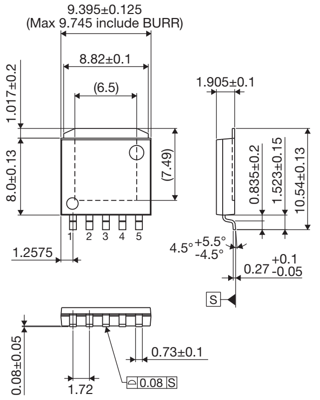
Taping: 2,000pcs

TO252S-5



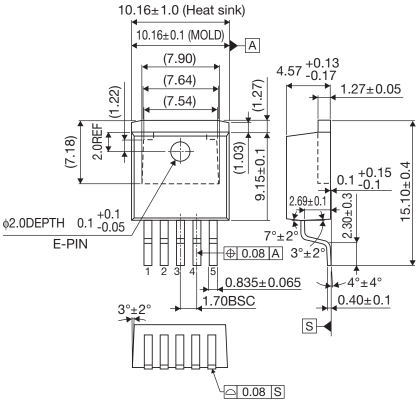
Taping: 2,000pcs

HRP5



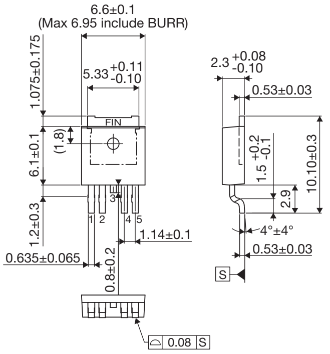
Taping: 2,000pcs

TO263-5



Taping: 500pcs

TO252-J5



Taping: 2,000pcs

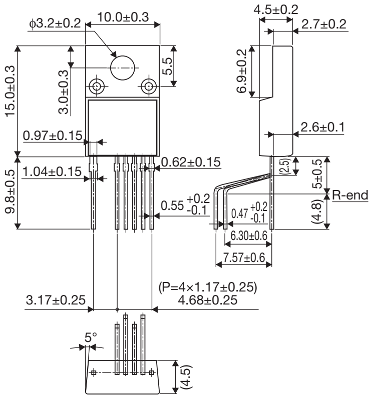
注：LAPIS Technology产品的封装请参照“LSI封装(LAPIS Technology产品)”。

Power封装

(单位 : mm)

Power-6pin

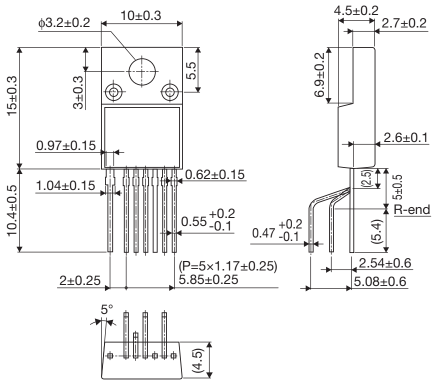
TO220-6M



Container tube: 238pcs

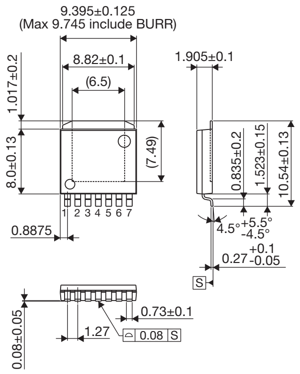
Power-7pin

TO220-7M



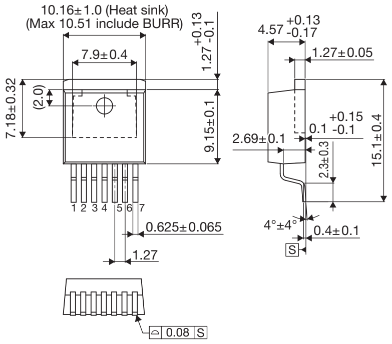
Container tube: 238pcs

HRP7



Taping: 2,000pcs

TO263-7



Taping: 2,000pcs

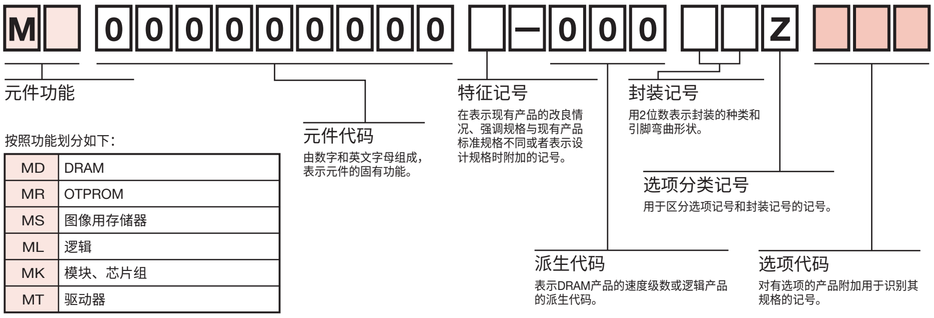
注：LAPIS Technology产品的封装请参照“LSI封装(LAPIS Technology产品)”。

LAPIS Technology封装

刊载各封装的代表性外形图。详细内容请咨询销售人员。

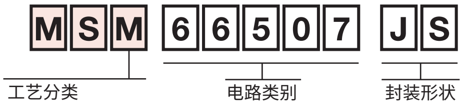
品名构成说明

半导体集成电路产品的名称是以“M”开头，并按照下述标准进行命名。



MD	DRAM
MR	OTPROM
MS	图像用存储器
ML	逻辑
MK	模块、芯片组
MT	驱动器

以往产品的标注方式如下所示。
・不标注封装形状。

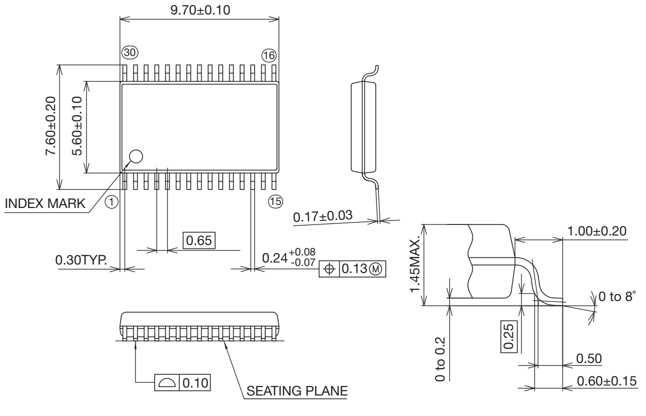


A	Analog	L	双极性逻辑
C	Bi-CMOS, 多芯片产品	M	MOS

SOP封装

(单位 : mm)

SSOP Package



(P-) SSOP30-56-0.65-TK-MC

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
SSOP Package Pin Pitch: 1mm	**SSOP32-430-1.00-XXX**	32	12.0	15.95	2.50	1,280	1,000
SSOP Package Pin Pitch: 0.65mm	**(P-) SSOP16-0225-0.65-XXX**	16	6.4	5.0	1.15	4,760	2,500
	(P-) SSOP30-56-0.65-XXX	30	7.6	9.7	1.45	2,000	2,000
		30	7.6	9.7	1.85	2,000	2,000
TSSOP Package Pin Pitch: 0.65mm	**(P-) TSSOP20-0225-0.65-XXX**	20	6.4	6.5	1.10	4,160	2,000
VSSOP Package Pin Pitch: 0.65mm	**P-VSSOP8-0150-0.65-XXX**	8	4.0	2.9	0.90	–	3,000

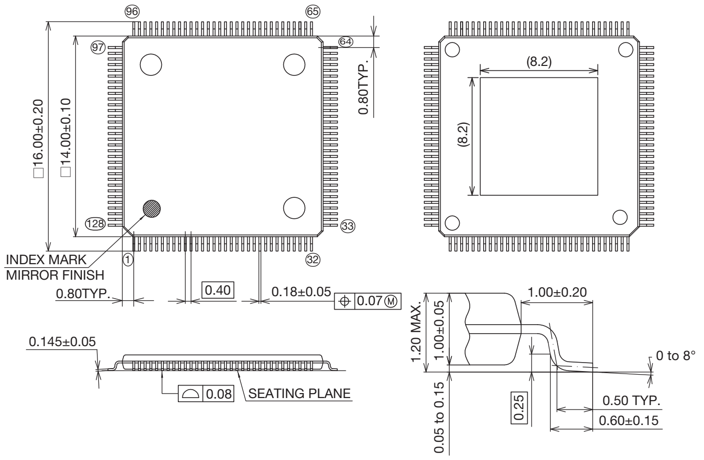
注1: 尺寸详图请确认罗姆官网。
注2: 封装的后缀“-XXX”中加入选项代码。根据不同的制造网点及内部结构等分配代码。详细内容请咨询销售人员。

刊载各封装的代表性外形图。详细内容请咨询销售人员。

QFP封装

(单位 : mm)

TQFP Package



(P-) TQFP128-1414-0.40-Z6K6

QFP

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
QFP Package Pin Pitch: 0.8mm	**QFP44-P-910-0.80-XXX**	44	13.5	14.5	2.25	1,440	1,000
	(P-) QFP64-1414-0.80-XXX	64	17.2	17.2	2.80	840	–
	(P-) QFP80-1420-0.80-XXX	80	19.0	25.0	2.50	600	–
QFP Package Pin Pitch: 0.65mm	**(P-) QFP56-910-0.65-XXX**	56	13.5	14.5	2.25	1,400	1,000
	(P-) QFP80-1414-0.65-XXX	80	17.2	17.2	3.05	840	–
	(P-) QFP100-1420-0.65-XXX	100	19.0	25.0	2.50	600	–

注1: 尺寸详图请确认罗姆官网。
注2: 封装的后缀“-XXX”中加入选项代码。根据不同的制造网点及内部结构等分配代码。详细内容请咨询销售人员。

LQFP

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
LQFP Package Pin Pitch: 0.8mm	**(P-) LQFP32-0707-0.80-XXX**	80	9.0	9.0	1.600	2,500	1,000
LQFP Package Pin Pitch: 0.50mm	**(P-) LQFP144-2020-0.50-XXX**	50	22.0	22.0	1.600	600	–

注1: 尺寸详图请确认罗姆官网。
注2: 封装的后缀“-XXX”中加入选项代码。根据不同的制造网点及内部结构等分配代码。详细内容请咨询销售人员。

TQFP

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
TQFP Package Pin Pitch: 0.80mm	**(P-) TQFP32-0707-0.80-XXX**	32	9.0	9.0	1.20	2,500	1,000
	(P-) TQFP44-1010-0.80-XXX	44	12.0	12.0	1.20	1,600	1,000
TQFP Package Pin Pitch: 0.65mm	**(P-) TQFP52-1010-0.65-XXX**	52	12.0	12.0	1.20	1,600	1,000
TQFP Package Pin Pitch: 0.5mm	**(P-) TQFP48-0707-0.50-XXX**	48	9.0	9.0	1.20	2,500	1,000
	(P-) TQFP64-1010-0.50-XXX	64	12.0	12.0	1.20	1,600	1,000

注1: 尺寸详图请确认罗姆官网。
注2: 封装的后缀“-XXX”中加入选项代码。根据不同的制造网点及内部结构等分配代码。详细内容请咨询销售人员。

刊载各封装的代表性外形图。详细内容请咨询销售人员。

QFP封装

(单位 : mm)

TQFP

	Package	Pin Number (pin)	Length [L] (mm)	Width [W] (mm)	Thickness [t] (mm)	TRAY (pcs)	T&R (pcs)
TQFP Package Pin Pitch: 0.5mm	**(P-) TQFP80-1212-0.50-XXX**	80	14.0	14.0	1.20	1,190	–
	(P-) TQFP100-1414-0.50-XXX	100	16.0	16.0	1.20	900	–
TQFP Package Pin Pitch: 0.40mm	**(P-) TQFP80-1010-0.40-XXX**	80	12.0	12.0	1.20	1,600	–
	(P-) TQFP120-1414-0.40-XXX	120	16.0	16.0	1.20	900	–
	(P-) TQFP128-1414-0.40-XXX	128	16.0	16.0	1.20	900	–

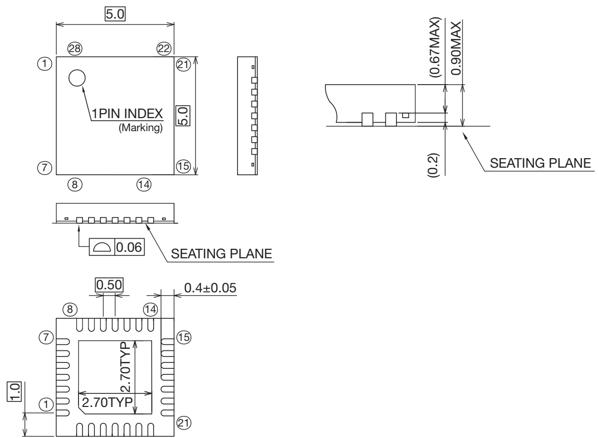
注1: 尺寸详图请确认罗姆官网。
注2: 封装的后缀"-XXX"中加入选项代码。根据不同的制造网点及内部结构等分配代码。详细内容请咨询销售人员。

QFN封装

(单位 : mm)

VQFN

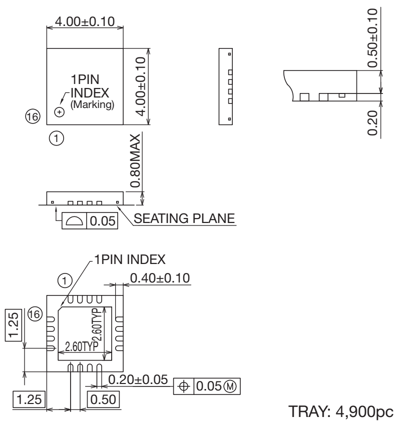
P-VQFN28-0505-0.50-U66



TRAY: 4,900pcs
T&R: 1,000pcs

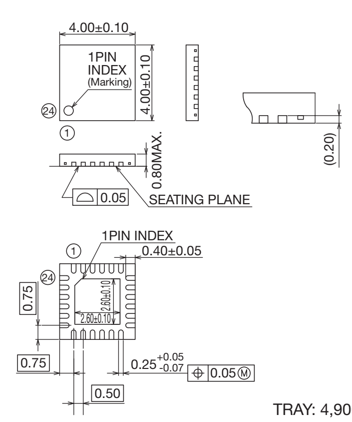
WQFN

P-WQFN16-0404-0.50-63



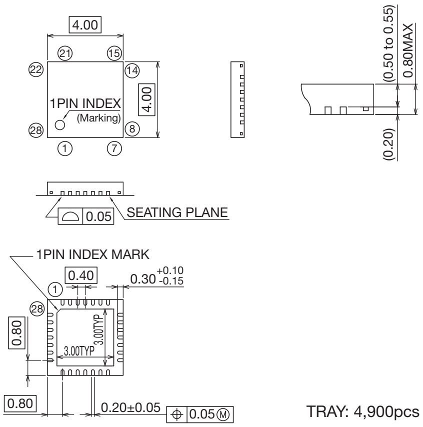
TRAY: 4,900pcs
T&R: 1,000pcs

P-WQFN24-0404-0.50-A63



TRAY: 4,900pcs
T&R: 1,000pcs

P-WQFN28-0404-0.40-63



TRAY: 4,900pcs
T&R: 1,000pcs

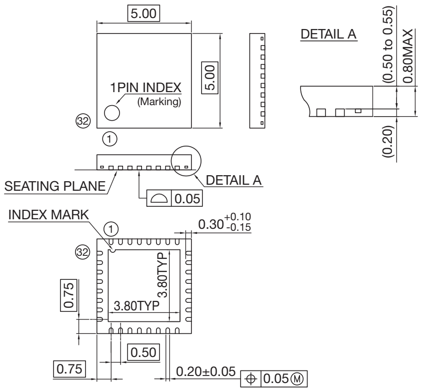
刊载各封装的代表性外形图。详细内容请咨询销售人员。

QFN封装

(单位 : mm)

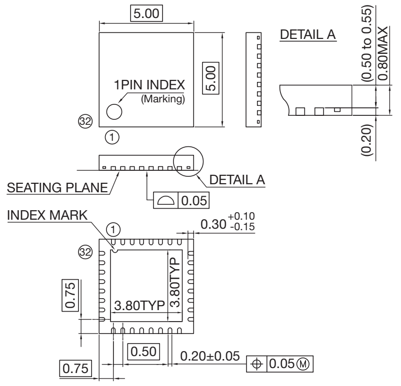
WQFN

P-WQFN32-0505-0.50-A63



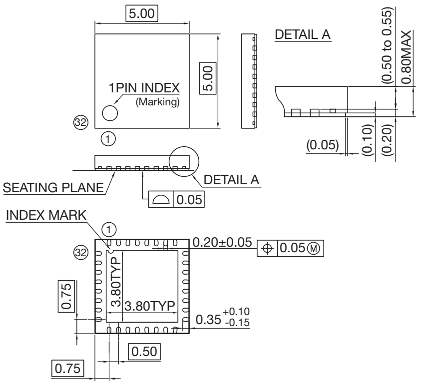
TRAY: 4,030pcs
T&R: 1,000pcs

P-WQFN32-0505-0.50-A63-MC



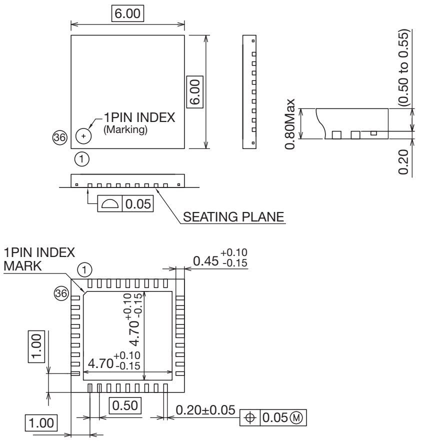
TRAY: 403pcs
T&R: 1,000pcs

P-WQFN32-0505-0.50-W66



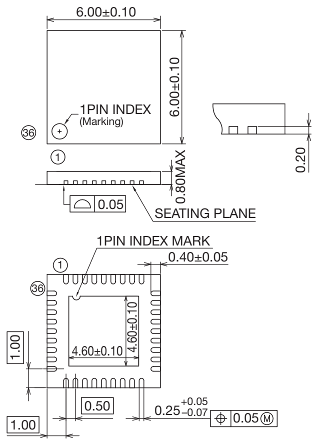
TRAY: 4,030pcs
T&R: 1,000pcs

WQFN36-0606-0.50-A63



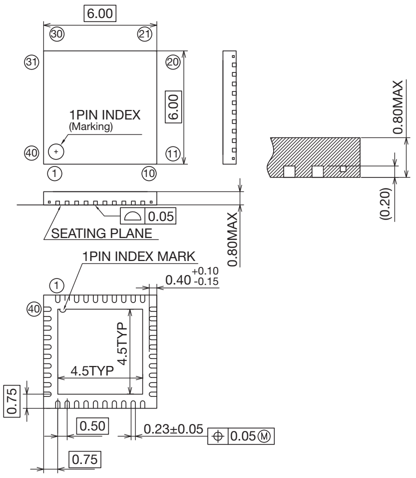
TRAY: 4,900pcs
T&R: 2,000pcs

P-WQFN36-0606-0.50-T63



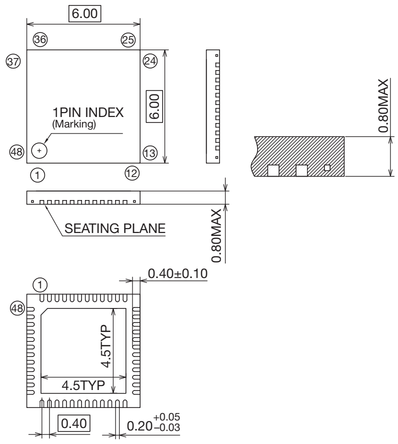
TRAY: 490pcs
T&R: 2,000pcs

P-WQFN40-0606-0.50-63



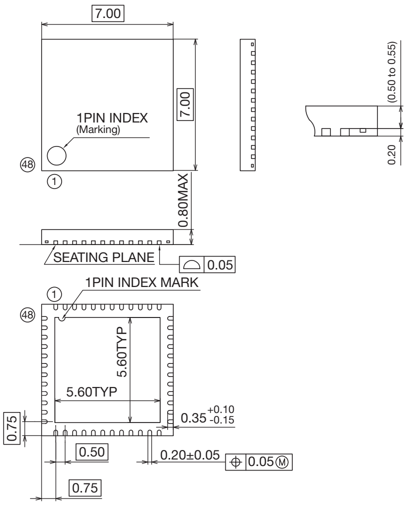
TRAY: 4,900pcs
T&R: 2,500pcs

P-WQFN48-0606-0.40-T63-MC



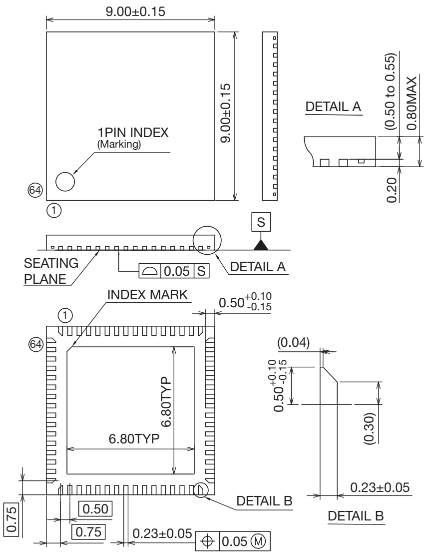
TRAY: –
T&R: 3,000pcs

P-WQFN48-0707-0.50-63



TRAY: 2,500pcs
T&R: 2,000pcs

P-WQFN64-0909-0.50-63



TRAY: 2,600pcs
T&R: 3,000pcs

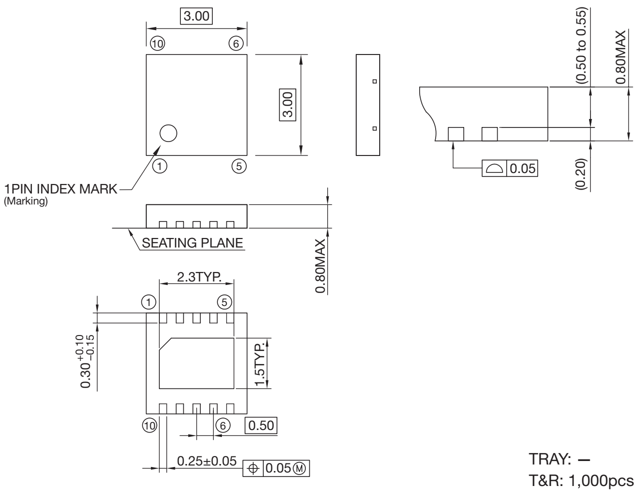
刊载各封装的代表性外形图。详细内容请咨询销售人员。

WSON封装

(单位：mm)

WSON

P-WSON10-0303-0.50-63



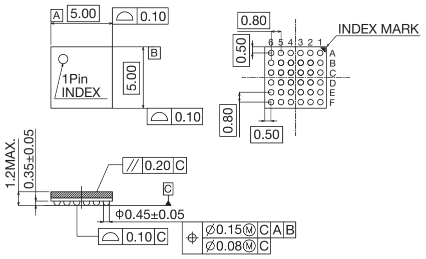
TRAY: —
T&R: 1,000pcs

BGA封装

(单位：mm)

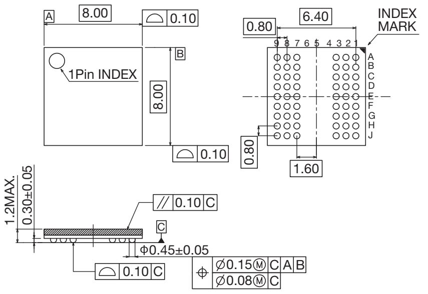
TFBGA

P-TFBGA36-0505-0.80-9



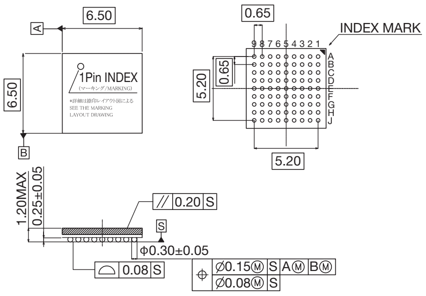
TRAY: 3,770pcs
T&R: —

P-TFBGA54-0808-0.80-9



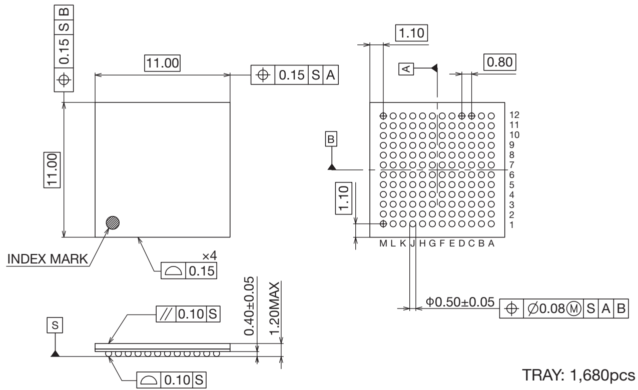
TRAY: 3,480pcs
T&R: 2,000pcs

P-TFBGA81-6.5×6.5-0.65-9-MC



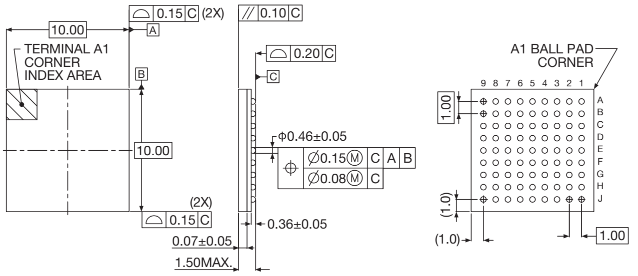
TRAY: —
T&R: 2,000pcs

P-TFBGA144-1111-0.80-1



TRAY: 1,680pcs
T&R: 1,000pcs

P-LBGA81-1010-1.00-1-MC



TRAY: 1,680pcs
T&R: —

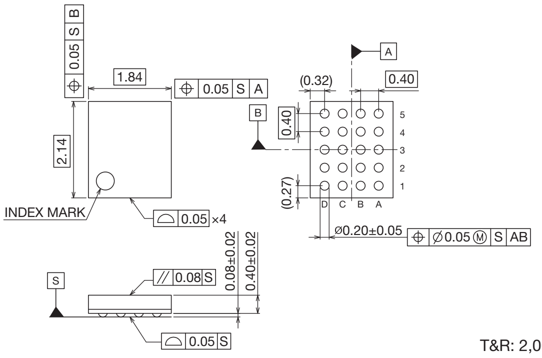
刊载各封装的代表性外形图。详细内容请咨询销售人员。

WL-CSP封装

(单位 : mm)

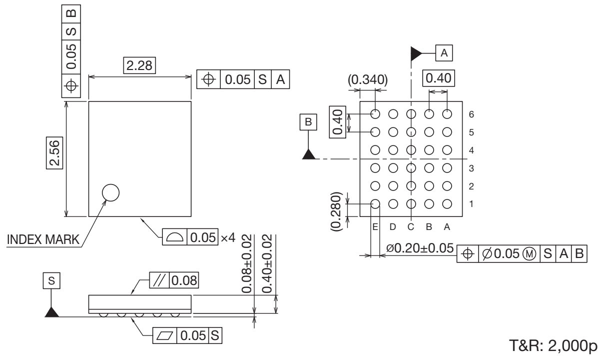
WCSP

S-UFLGA20-1.84×2.14-0.40-W



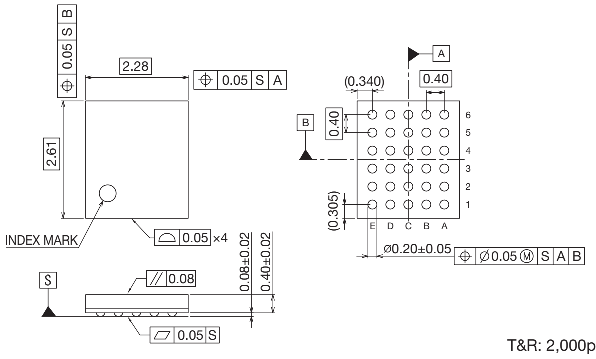
T&R: 2,000pcs

S-UFLGA30-2.28×2.56-0.40-W



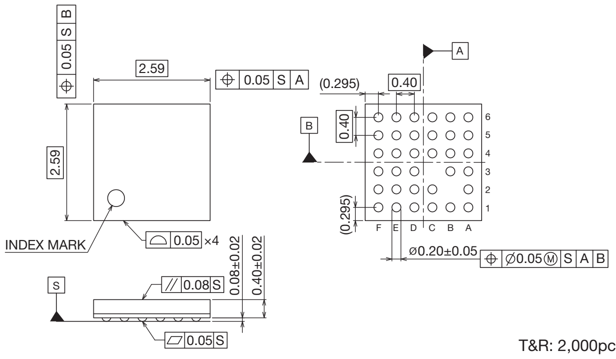
T&R: 2,000pcs

S-UFLGA30-2.28×2.61-0.40-W



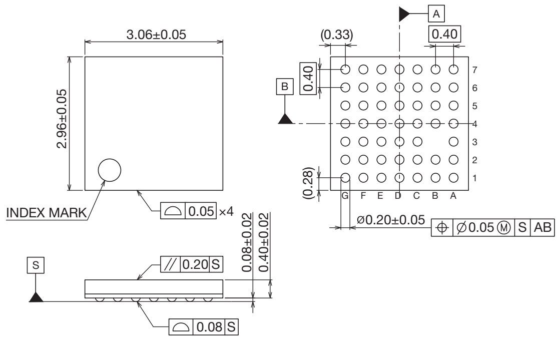
T&R: 2,000pcs

S-UFLGA34-2.59×2.59-0.40-W



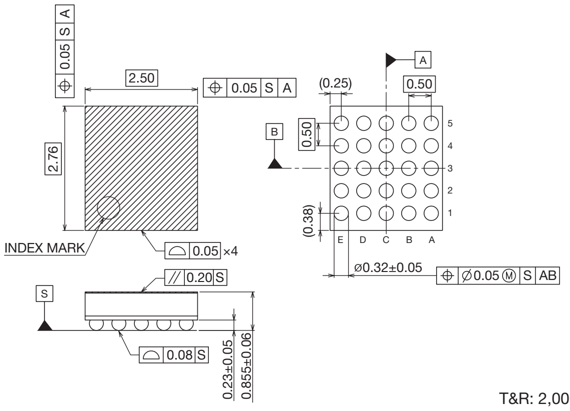
T&R: 2,000pcs

S-UFLGA48-3.06×2.96-0.40-W



T&R: 2,000pcs

S-VFBGA25-2.76×2.50-0.50-W



T&R: 2,000pcs

IC封装

SiC肖特基势垒二极管

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

SiC肖特基势垒二极管

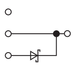
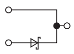
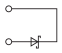
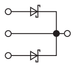
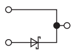
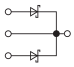
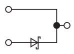
●SiC肖特基势垒二极管一览表

V_{RM} (V)	I_F (A)	Leaded type								Surface Mounted type	
											
		TO-220AC (TO-220ACGE)		TO-220AC (TO-220ACG)		TO-220FM (TO-220-2LGE)		TO-247 (TO-247N)		TO-263AB (LPTL)	
650	4	**SCS304AG**	20			**SCS304AM**	27			**SCS304AJ**	13
	6	**SCS306AG**	21	**SCS206AG**	40	**SCS306AM**	28			**SCS206AJ** **SCS206AJHR** **SCS306AJ**	1 7 14
	8	**SCS308AG**	22	**SCS208AG**	41	**SCS308AM**	29			**SCS208AJ** **SCS208AJHR** **SCS308AJ**	2 8 15
	10	**SCS310AG**	23	**SCS210AG**	42	**SCS310AM**	30			**SCS210AJ** **SCS210AJHR** **SCS310AJ**	3 9 16
	12	**SCS312AG**	24	**SCS212AG**	43	**SCS312AM**	31			**SCS212AJ** **SCS212AJHR** **SCS312AJ**	4 10 17
	15	**SCS315AG**	25	**SCS215AG**	44	**SCS315AM**	32			**SCS215AJ** **SCS215AJHR** **SCS315AJ**	5 11 18
	20	**SCS320AG**	26	**SCS220AG**	45	**SCS320AM**	33	**SCS220AE2** **SCS220AE2HR**	34 37	**SCS220AJ** **SCS220AJHR** **SCS320AJ**	6 12 19
	30							**SCS230AE2** **SCS230AE2HR**	35 38		
	40							**SCS240AE2** **SCS240AE2HR**	36 39		
1,200	5			**SCS205KG**	54						
	10			**SCS210KG**	55			**SCS210KE2** **SCS210KE2HR**	46 50		
	15			**SCS215KG**	56						
	20			**SCS220KG**	57			**SCS220KE2** **SCS220KE2HR**	47 51		
	30							**SCS230KE2** **SCS230KE2HR**	48 52		
	40							**SCS240KE2** **SCS240KE2HR**	49 53		

注：封装采用JEDEC表示。(　)内表示ROHM封装。

SiC肖特基势垒二极管

SiC肖特基势垒二极管

No.	Part No.	Absolute Maximum Ratings (T_j=25℃)				Electrical Characteristics (T_j=25℃)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
		V_{RM} (V)	V_R (V)	I_F (A)	I_{FSM} (A) 10ms	V_F (V) Typ	I_F (A)	I_R (μA) Max	V_R (V)			
1	SCS206AJ	650	650	6	23	1.35	6	120	600	TO-263AB (LPTL)		–
2	SCS208AJ	650	650	8	30	1.35	8	160	600			–
3	SCS210AJ	650	650	10	38	1.35	10	200	600			–
4	SCS212AJ	650	650	12	43	1.35	12	240	600			–
5	SCS215AJ	650	650	15	52	1.35	15	300	600			–
6	SCS220AJ	650	650	20	68	1.35	20	400	600			–
7	SCS206AJHR	650	650	6	23	1.35	6	120	600			YES
8	SCS208AJHR	650	650	8	30	1.35	8	160	600			YES
9	SCS210AJHR	650	650	10	38	1.35	10	200	600			YES
10	SCS212AJHR	650	650	12	43	1.35	12	240	600			YES
11	SCS215AJHR	650	650	15	52	1.35	15	300	600			YES
12	SCS220AJHR	650	650	20	68	1.35	20	400	600			YES
13	SCS304AJ	650	650	4	27	1.35	4	20	650			–
14	SCS306AJ	650	650	6	47	1.35	6	30	650			–
15	SCS308AJ	650	650	8	67	1.35	8	40	650			–
16	SCS310AJ	650	650	10	82	1.35	10	50	650			–
17	SCS312AJ	650	650	12	96	1.35	12	60	650			–
18	SCS315AJ	650	650	15	112	1.35	15	75	650			–
19	SCS320AJ	650	650	20	123	1.35	20	100	650			–
20	SCS304AG	650	650	4	27	1.35	4	20	650	TO-220AC (TO-220ACGE)		–
21	SCS306AG	650	650	6	47	1.35	6	30	650			–
22	SCS308AG	650	650	8	67	1.35	8	40	650			–
23	SCS310AG	650	650	10	82	1.35	10	50	650			–
24	SCS312AG	650	650	12	96	1.35	12	60	650			–
25	SCS315AG	650	650	15	112	1.35	15	75	650			–
26	SCS320AG	650	650	20	123	1.35	20	100	650			–
27	SCS304AM	650	650	4	27	1.35	4	20	650	TO-220FM (TO-220FM-2LGE)		–
28	SCS306AM	650	650	6	47	1.35	6	30	650			–
29	SCS308AM	650	650	8	67	1.35	8	40	650			–
30	SCS310AM	650	650	10	82	1.35	10	50	650			–
31	SCS312AM	650	650	12	96	1.35	12	60	650			–
32	SCS315AM	650	650	15	112	1.35	15	75	650			–
33	SCS320AM	650	650	20	123	1.35	20	100	650			–
34	SCS220AE2	650	650	10/20[*1]	38/76[*1]	1.35	10	200	600	TO-247 (TO-247N)		–
35	SCS230AE2	650	650	15/30[*1]	52/104[*1]	1.35	15	300	600			–
36	SCS240AE2	650	650	20/40[*1]	67/130[*1]	1.35	20	400	600			–
37	SCS220AE2HR	650	650	10/20[*1]	38/76[*1]	1.35	10	200	600			YES
38	SCS230AE2HR	650	650	15/30[*1]	52/100[*1]	1.35	15	300	600			YES
39	SCS240AE2HR	650	650	20/40[*1]	67/130[*1]	1.35	20	400	600			YES
40	SCS206AG	650	650	6	23	1.35	6	120	600	TO-220AC (TO-220ACG)		–
41	SCS208AG	650	650	8	30	1.35	8	160	600			–
42	SCS210AG	650	650	10	38	1.35	10	200	600			–
43	SCS212AG	650	650	12	43	1.35	12	240	600			–
44	SCS215AG	650	650	15	52	1.35	15	300	600			–
45	SCS220AG	650	650	20	68	1.35	20	400	600			–
46	SCS210KE2	1,200	1,200	5/10[*1]	22/45[*1]	1.4	5	100	1,200	TO-247 (TO-247N)		–
47	SCS220KE2	1,200	1,200	10/20[*1]	42/84[*1]	1.4	10	200	1,200			–
48	SCS230KE2	1,200	1,200	15/30[*1]	62/120[*1]	1.4	15	300	1,200			–
49	SCS240KE2	1,200	1,200	20/40[*1]	78/150[*1]	1.4	20	400	1,200			–
50	SCS210KE2HR	1,200	1,200	5/10[*1]	22/45[*1]	1.4	5	100	1,200			YES
51	SCS220KE2HR	1,200	1,200	10/20[*1]	42/84[*1]	1.4	10	200	1,200			YES
52	SCS230KE2HR	1,200	1,200	15/30[*1]	62/120[*1]	1.4	15	300	1,200			YES
53	SCS240KE2HR	1,200	1,200	20/40[*1]	78/150[*1]	1.4	20	400	1,200			YES
54	SCS205KG	1,200	1,200	5	23	1.4	5	100	1,200	TO-220AC (TO-220ACG)		–
55	SCS210KG	1,200	1,200	10	42	1.4	10	200	1,200			–
56	SCS215KG	1,200	1,200	15	62	1.4	15	300	1,200			–
57	SCS220KG	1,200	1,200	20	79	1.4	20	400	1,200			–

注：封装采用JEDEC表示。(　)内表示ROHM封装。

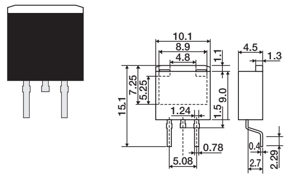
[*1] (引脚/封装)

SiC肖特基势垒二极管

●外形尺寸图 (单位：mm)

表面贴装型

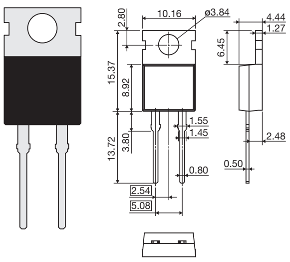
TO-263AB (LPTL)



Each lead has same dimensions

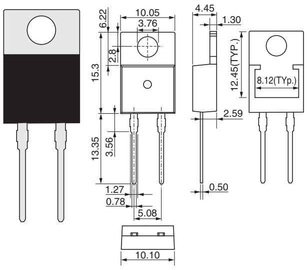
引脚插入型

TO-220AC (TO-220ACGE)



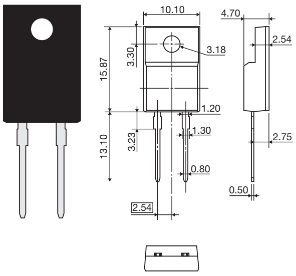
Each lead has same dimensions

TO-220AC (TO-220ACG)



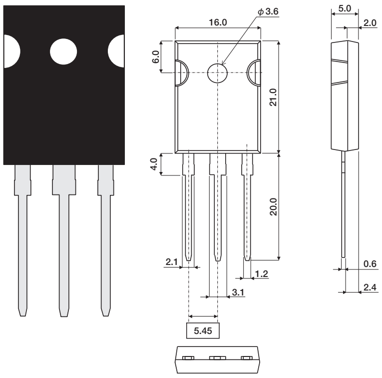
Each lead has same dimensions

TO-220FM (TO-220FM-2LGE)



Each lead has same dimensions

TO-247 (TO-247N)



Each lead has same dimensions

注：封装采用JEDEC表示。(　)内表示ROHM封装。

●品名构成说明

•关于SiC肖特基势垒二极管的品名(基本型号)

S C | S | 2 | 1 0 | A | J | H R
① ② ③ ④ ⑤ ⑥ ⑦

① SiC分立元器件
② S→肖特基势垒二极管
③ 世代
④ 电流[A]
例　05 → 5A
　　10 → 10A
⑤ 电压
例　A → 650V
　　K → 1,200V
⑥ 封装
例　J → TO-263AB (LPTL)
　　E → TO-247 (TO-247N)
　　E2 → TO-247 (Dual Chip)
　　G → TO-220AC (TO-220ACGE)
　　　　TO-220AC (TO-220ACG)
⑦ 表示支持车载

●封装类型

Package	Code	Packaging Style	Basic Ordering Unit (pcs)
TO-263AB (LPTL)	TLL	Embossed Tape	1,000
TO-220AC (TO-220ACGE)	C16	Tube	50
TO-220AC (TO-220ACG)	C17	Tube	50
TO-220FM (TO-220FM-2LGE)	C7G	Tube	50
TO-247 (TO-247N)	C11	Tube	30

注：封装采用JEDEC表示。(　)内表示ROHM封装。

SiC MOSFET

⇨ 点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

SiC MOSFET

●SiC MOSFET一览表

V_{DSS} (V)	R_{DS (on)} (mΩ)	Leaded type						Surface Mounted type			
											
		TO-247 (TO-247N)		TO-247-4L		TO-3PFM		TO-263-7L		TO-263-7LA	
650	17	**SCT3017AL** **SCT3017ALHR**	10 36								
	22	**SCT3022AL** **SCT3022ALHR**	11 37								
	30	**SCT3030AL** **SCT3030ALHR**	12 38	**SCT3030AR** **SCT3030ARHR**	22 48			**SCT3030AW7**	28		
	60	**SCT3060AL** **SCT3060ALHR**	13 39	**SCT3060AR** **SCT3060ARHR**	23 49			**SCT3060AW7**	29		
	80	**SCT3080AL** **SCT3080ALHR**	14 40	**SCT3080AR** **SCT3080ARHR**	24 50			**SCT3080AW7**	30		
	120	**SCT3120AL** New **SCT3120ALHR**	15 41					**SCT3120AW7**	31		
750	13	**SCT4013DE**	55	**SCT4013DR**	61			**SCT4013DW7**	67		
	26	**SCT4026DE** **SCT4026DEHR**	56 76	**SCT4026DR** **SCT4026DRHR**	62 80			**SCT4026DW7** **SCT4026DW7HR**	68 84	New **SCT4026DWA** New **SCT4026DWAHR**	73 87
	45	**SCT4045DE** **SCT4045DEHR**	57 77	**SCT4045DR** **SCT4045DRHR**	63 81			**SCT4045DW7** **SCT4045DW7HR**	69 85	New **SCT4045DWA** New **SCT4045DWAHR**	74 88
1,200	18	**SCT4018KE**	58	**SCT4018KR**	64			**SCT4018KW7**	70		
	22	**SCT3022KL** **SCT3022KLHR**	16 42								
	30	**SCT3030KL** **SCT3030KLHR**	17 43								
	36	**SCT4036KE** **SCT4036KEHR**	59 78	**SCT4036KR** **SCT4036KRHR**	65 82			**SCT4036KW7**	71		
	40	**SCT3040KL** **SCT3040KLHR**	18 44	**SCT3040KR** **SCT3040KRHR**	25 51			**SCT3040KW7**	32		
	62	**SCT4062KE** **SCT4062KEHR**	60 79	**SCT4062KR** **SCT4062KRHR**	66 83			**SCT4062KW7** **SCT4062KW7HR**	72 86	New **SCT4062KWA** New **SCT4062KWAHR**	75 89
	80	**SCT2080KE** **SCT2080KEHR** **SCT3080KL** **SCT3080KLHR**	1 6 19 45	**SCT3080KR** **SCT3080KRHR**	26 52			**SCT3080KW7**	33		
	105	**SCT3105KL** **SCT3105KLHR**	20 46	**SCT3105KR** **SCT3105KRHR**	27 53			**SCT3105KW7**	34		
	160	**SCT2160KE** **SCT2160KEHR** **SCT3160KL** New **SCT3160KLHR**	2 7 21 47					**SCT3160KW7** New **SCT3160KW7HR**	35 54		
	280	**SCT2280KE** **SCT2280KEHR**	3 8								
	450	**SCT2450KE** **SCT2450KEHR**	4 9								
1,700	1,150					**SCT2H12NZ**	5				

注：封装采用JEDEC表示。(　)内表示ROHM封装。

SiC MOSFET

No.	Part No.	Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_C=25°C)	$R_{DS\ (on)}$ Typ (mΩ)	Qg Typ (nC)		Package	Automotive Grade AEC-Q101
						V_{GS}=18V	V_{GS}=18V	Drive Voltage (V)		
第2代(平面型)										
1	**SCT2080KE**	N	1,200	40	262	80	106	18	TO-247 (TO-247N)	–
2	**SCT2160KE**	N		22	165	160	62	18		–
3	**SCT2280KE**	N		14	108	280	36	18		–
4	**SCT2450KE**	N		10	85	450	27	18		–
5	**SCT2H12NZ**	N	1,700	3.7	35	1,150	14	18	TO-3PFM	–
6	**SCT2080KEHR**	N	1,200	40	262	80	106	18	TO-247 (TO-247N)	YES
7	**SCT2160KEHR**	N		22	165	160	62	18		YES
8	**SCT2280KEHR**	N		14	108	280	36	18		YES
9	**SCT2450KEHR**	N		10	85	450	27	18		YES
第3代(沟槽型)										
10	**SCT3017AL**	N	650	118	427	17	172	18	TO-247 (TO-247N)	–
11	**SCT3022AL**	N		93	339	22	133	18		–
12	**SCT3030AL**	N		70	262	30	104	18		–
13	**SCT3060AL**	N		39	165	60	58	18		–
14	**SCT3080AL**	N		30	134	80	48	18		–
15	**SCT3120AL**	N		21	103	120	38	18		–
16	**SCT3022KL**	N	1,200	95	427	22	178	18		–
17	**SCT3030KL**	N		72	339	30	131	18		–
18	**SCT3040KL**	N		55	262	40	107	18		–
19	**SCT3080KL**	N		31	165	80	60	18		–
20	**SCT3105KL**	N		24	134	105	51	18		–
21	**SCT3160KL**	N		17	103	160	42	18		–
22	**SCT3030AR**	N	650	70	262	30	104	18	TO-247-4L	–
23	**SCT3060AR**	N		39	165	60	58	18		–
24	**SCT3080AR**	N		30	134	80	48	18		–
25	**SCT3040KR**	N	1,200	55	262	40	107	18		–
26	**SCT3080KR**	N		31	165	80	60	18		–
27	**SCT3105KR**	N		24	134	105	51	18		–
28	**SCT3030AW7**	N	650	70	267	30	104	18	TO-263-7L	–
29	**SCT3060AW7**	N		38	159	60	58	18		–
30	**SCT3080AW7**	N		29	125	80	48	18		–
31	**SCT3120AW7**	N		21	100	120	38	18		–
32	**SCT3040KW7**	N	1,200	56	267	40	107	18		–
33	**SCT3080KW7**	N		30	159	80	60	18		–
34	**SCT3105KW7**	N		23	125	105	51	18		–
35	**SCT3160KW7**	N		17	100	160	42	18		–
36	**SCT3017ALHR**	N	650	118	427	17	172	18	TO-247 (TO-247N)	YES
37	**SCT3022ALHR**	N		93	339	22	133	18		YES
38	**SCT3030ALHR**	N		70	262	30	104	18		YES
39	**SCT3060ALHR**	N		39	165	60	58	18		YES
40	**SCT3080ALHR**	N		30	134	80	48	18		YES
41	New **SCT3120ALHR**	N		21	103	120	38	18		YES
42	**SCT3022KLHR**	N	1,200	95	427	22	178	18		YES
43	**SCT3030KLHR**	N		72	339	30	131	18		YES
44	**SCT3040KLHR**	N		55	262	40	107	18		YES
45	**SCT3080KLHR**	N		31	165	80	60	18		YES
46	**SCT3105KLHR**	N		24	134	105	51	18		YES
47	New **SCT3160KLHR**	N		17	103	160	42	18		YES
48	**SCT3030ARHR**	N	650	70	262	30	104	18	TO-247-4L	YES
49	**SCT3060ARHR**	N		39	165	60	58	18		YES
50	**SCT3080ARHR**	N		30	134	80	48	18		YES
51	**SCT3040KRHR**	N	1,200	55	262	40	107	18		YES
52	**SCT3080KRHR**	N		31	165	80	60	18		YES
53	**SCT3105KRHR**	N		24	134	105	51	18		YES
54	New **SCT3160KW7HR**	N		17	100	160	42	18	TO-263-7L	YES

注：封装采用JEDEC表示。(　)内表示ROHM封装。

第4代(沟槽型)

No.	Part No.	Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_C=25°C)	$R_{DS (on)}$ Typ (mΩ)	Qg Typ (nC)		Package	Automotive Grade AEC-Q101
						V_{GS}=18V	V_{GS}=18V	Drive Voltage (V)		
55	SCT4013DE	N	750	105	312	13	170	15 to 18	TO-247 (TO-247N)	–
56	SCT4026DE	N		56	176	26	94	15 to 18		–
57	SCT4045DE	N		34	115	45	63	15 to 18		–
58	SCT4018KE	N	1,200	81	312	18	170	15 to 18		–
59	SCT4036KE	N		43	176	36	91	15 to 18		–
60	SCT4062KE	N		26	115	62	64	15 to 18		–
61	SCT4013DR	N	750	105	312	13	170	15 to 18	TO-247-4L	–
62	SCT4026DR	N		56	176	26	94	15 to 18		–
63	SCT4045DR	N		34	115	45	63	15 to 18		–
64	SCT4018KR	N	1,200	81	312	18	170	15 to 18		–
65	SCT4036KR	N		43	176	36	91	15 to 18		–
66	SCT4062KR	N		26	115	62	64	15 to 18		–
67	SCT4013DW7	N	750	98	267	13	170	15 to 18	TO-263-7L	–
68	SCT4026DW7	N		51	150	26	94	15 to 18		–
69	SCT4045DW7	N		31	93	45	63	15 to 18		–
70	SCT4018KW7	N	1,200	75	267	18	170	15 to 18		–
71	SCT4036KW7	N		40	150	36	91	15 to 18		–
72	SCT4062KW7	N		24	93	62	64	15 to 18		–
73	New SCT4026DWA	N	750	51	150	26	94	15 to 18	TO-263-7LA	–
74	New SCT4045DWA	N		31	93	45	63	15 to 18		–
75	New SCT4062KWA	N	1,200	24	93	62	64	15 to 18		–
76	SCT4026DEHR	N	750	56	176	26	94	15 to 18	TO-247 (TO-247N)	YES
77	SCT4045DEHR	N		34	115	45	63	15 to 18		YES
78	SCT4036KEHR	N	1,200	43	176	36	91	15 to 18		YES
79	SCT4062KEHR	N		26	115	62	64	15 to 18		YES
80	SCT4026DRHR	N	750	56	176	26	94	15 to 18	TO-247-4L	YES
81	SCT4045DRHR	N		34	115	45	63	15 to 18		YES
82	SCT4036KRHR	N	1,200	43	176	36	91	15 to 18		YES
83	SCT4062KRHR	N		26	115	62	64	15 to 18		YES
84	SCT4026DW7HR	N	750	51	150	26	94	15 to 18	TO-263-7L	YES
85	SCT4045DW7HR	N		31	93	45	63	15 to 18		YES
86	SCT4062KW7HR	N	1,200	24	93	62	64	15 to 18		YES
87	New SCT4026DWAHR	N	750	51	150	26	94	15 to 18	TO-263-7LA	YES
88	New SCT4045DWAHR	N		31	93	45	63	15 to 18		YES
89	New SCT4062KWAHR	N	1,200	24	93	62	64	15 to 18		YES

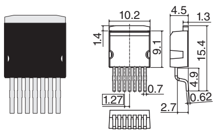
注：封装采用JEDEC表示。(　)内表示ROHM封装。

SiC MOSFET

●外形尺寸图 (单位：mm)

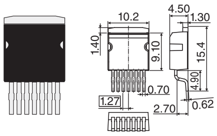
表面贴装型

TO-263-7L



Each lead has same dimensions

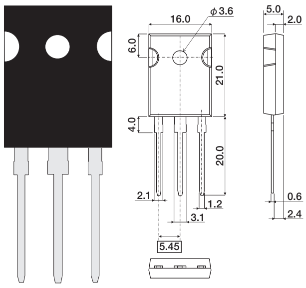
TO-263-7LA



Each lead has same dimensions

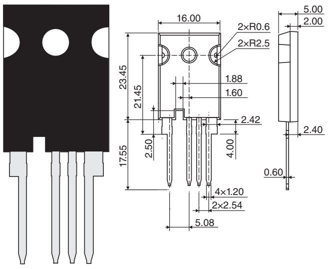
引脚插入型

TO-247 (TO-247N)



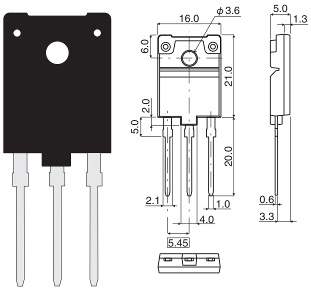
Each lead has same dimensions

TO-247-4L



Each lead has same dimensions

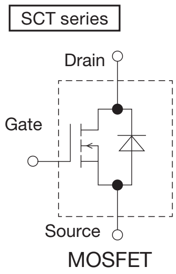
TO-3PFM



Each lead has same dimensions

注：封装采用JEDEC表示。(　)内表示ROHM封装。

●内部电路图



●品名构成说明

•关于MOSFET的品名(基本型号)

S C T 3 0 3 0 A L H R

① ② ③ ④ ⑤ ⑥ ⑦

① SiC分立元器件
② T → MOSFET
③ 世代
④ ON-resistance[mΩ]
080=80mΩ
H12=1.2Ω

⑤ 电压
A → 650V
D → 750V
K → 1,200V
N → 1,700V

⑥ 封装
E, L → TO-247 (TO-247N)
Z → TO-3PFM
R → TO-247-4L
W7 → TO-263-7L
WA → TO-263-7LA

⑦ 表示支持车载

●封装类型

Package	Code	Packaging Style	Basic Ordering Unit (pcs)
TO-263-7L **TO-263-7LA**	TL	Embossed Tape	1,000
TO-247 (TO-247N)	C11	Tube	30
TO-247-4L	C15	Tube	30
TO-3PFM	C11	Tube	30

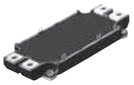
注：封装采用JEDEC表示。(　)内表示ROHM封装。

“全SiC”功率模块

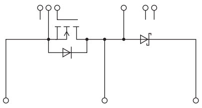
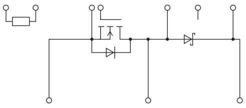
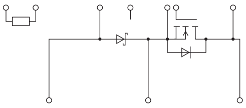
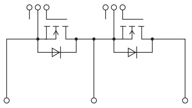
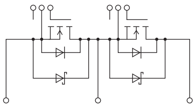
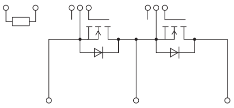
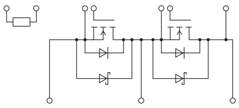
点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

“全SiC”功率模块

● “全SiC”功率模块一览表

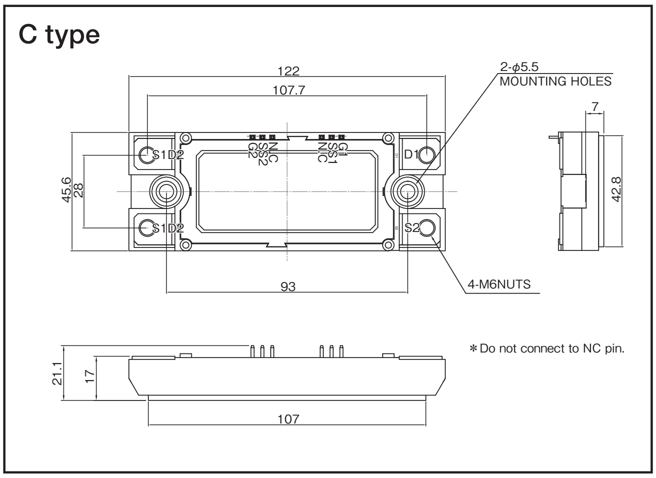
V_{DSS} (V)	$R_{DS (on)}$ (mΩ)	Case type					
							
		C type		E type		G type	
1,200	34	BSM080D12P2C008	9				
	20	BSM120D12P2C005 BSM120C12P2C201	10 1				
	12.8	BSM180D12P2C101	8				
	12.2			BSM180C12P2E202 BSM180D12P2E002	3 15		
	10	BSM180D12P3C007 BSM180C12P3C202	11 2				
	7.3			BSM300D12P2E001	16		
	6.3			BSM300C12P3E201 BSM300C12P3E301	4 7		
	5.75					BSM400D12P2G003	18
	5.55			BSM300D12P3E005	17		
	4.5					BSM400D12P3G002 BSM400C12P3G202	19 5
	4					BSM300D12P4G101	12
	3.3					BSM450D12P4G102	13
	3					BSM600D12P3G001 BSM600C12P3G201	20 6
	2.7					BSM600D12P4G103	14
1,700	8			BSM250D17P2E004	21		

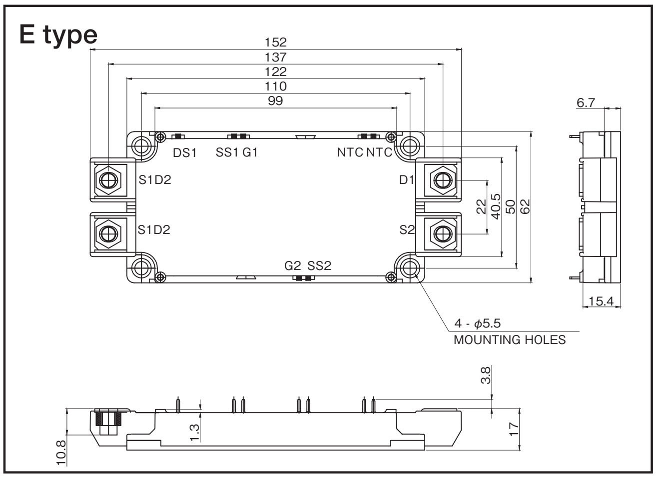
“全SiC”功率模块

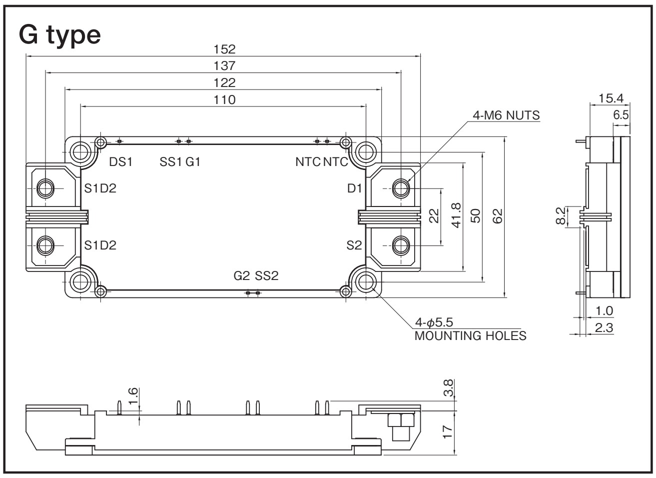
No.	Part No.	Absolute Maximum Ratings (T_j=25°C)						Package	Internal Circuit
		V_{DSS} (V)	$R_{DS(on)}$ (mΩ)	I_D (A)	T_j (°C)	Tstg (°C)	Visol (V) AC 1min		
升降压斩波型									
1	BSM120C12P2C201	1,200	20	120	−40 to +175	−40 to +125	2,500	C type	
2	BSM180C12P3C202		10	180	−40 to +175	−40 to +125	2,500		
3	BSM180C12P2E202		12.2	180	−40 to +175	−40 to +125	2,500	E type	
4	BSM300C12P3E201		6.3	300	−40 to +175	−40 to +125	2,500		
5	BSM400C12P3G202		4.5	400	−40 to +175	−40 to +125	2,500	G type	
6	BSM600C12P3G201		3	600	−40 to +175	−40 to +125	2,500		
7	BSM300C12P3E301		6.3	300	−40 to +175	−40 to +125	2,500	E type	
半桥型									
8	BSM180D12P2C101	1,200	12.8	180	−40 to +175	−40 to +125	2,500	C type	
9	BSM080D12P2C008		34	80	−40 to +175	−40 to +125	2,500		
10	BSM120D12P2C005		20	120	−40 to +175	−40 to +125	2,500		
11	BSM180D12P3C007		10	180	−40 to +175	−40 to +125	2,500		
12	BSM300D12P4G101		4	300	−40 to +175	−40 to +125	2,500	G type	
13	BSM450D12P4G102		3.3	450	−40 to +175	−40 to +125	2,500		
14	BSM600D12P4G103		2.7	600	−40 to +175	−40 to +125	2,500		
15	BSM180D12P2E002		12.2	180	−40 to +175	−40 to +125	2,500	E type	
16	BSM300D12P2E001		7.3	300	−40 to +175	−40 to +125	2,500		
17	BSM300D12P3E005		5.55	300	−40 to +175	−40 to +125	2,500		
18	BSM400D12P2G003		5.75	400	−40 to +175	−40 to +125	2,500	G type	
19	BSM400D12P3G002		4.5	400	−40 to +175	−40 to +125	2,500		
20	BSM600D12P3G001		3	600	−40 to +175	−40 to +125	2,500		
21	BSM250D17P2E004	1,700	8	250	−40 to +175	−40 to +125	3,400	E type	

“全SiC”功率模块

●外形尺寸图 (单位：mm)







●品名构成说明

B S M	1 2 0	D	1 2	P 2	C 0	0 5
①	②	③	④	⑤	⑥	⑦

① SiC功率模块
② 额定电流
③ C → 含1个电路
D → 含2个电路
④ 耐压
例 12 → 1,200V
17 → 1,700V
⑤ 器件类型
P2 使用第二代SiC MOSFET
P3 使用第三代SiC MOSFET
P4 使用第四代SiC MOSFET
⑥ 规格类型
⑦ 追加型号

IGBT

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

Field Stop Trench IGBT

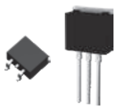
●Field Stop Trench IGBT一览表
标准产品

Series	V_{CES} (V)	I_C (A) T_C= 100°C	Package							
										
			TO-247N/TO-247GE				TO-3PFM			
			IGBT Single		Built-in Diode*		IGBT Single		Built-in FRD	
RGTH series (High speed switching)	650	20	**RGTH40TS65**	13	**RGTH40TS65D**	46	**RGTH40TK65**	22	**RGTH40TK65D**	63
		25	**RGTH50TS65**	14	**RGTH50TS65D**	47	**RGTH50TK65**	23	**RGTH50TK65D**	64
		30	**RGTH60TS65**	15	**RGTH60TS65D**	48	**RGTH60TK65**	24	**RGTH60TK65D**	65
		40	**RGTH80TS65**	16	**RGTH80TS65D**	49	**RGTH80TK65**	25	**RGTH80TK65D**	66
		50	**RGTH00TS65**	17	**RGTH00TS65D**	50	**RGTH00TK65**	26	**RGTH00TK65D**	67
RGWS series (High speed SW, cost effective)	650	30	New **RGWS60TS65**	18	New **RGWS60TS65D**	51				
		40	New **RGWS80TS65**	19	New **RGWS80TS65D**	52				
		50	New **RGWS00TS65**	20	New **RGWS00TS65D**	53				
		60	New **RGWSX2TS65**	21	New **RGWSX2TS65D**	54				
RGW series (Ultra High speed switching)	650	20	**RGW40TS65**	5	**RGW40TS65D**	55	**RGW40TK65**	27	**RGW40TK65D**	68
		25	**RGW50TS65**	6	**RGW50TS65D**	56	**RGW50TK65**	28	**RGW50TK65D**	69
		30	**RGW60TS65HR** **RGW60TS65**	1 7	**RGW60TS65CHR** **RGW60TS65DHR** **RGW60TS65EHR** **RGW60TS65D**	34 37 38 57	**RGW60TK65**	29	**RGW60TK65D**	70
		40	**RGW80TS65HR** **RGW80TS65**	2 8	**RGW80TS65CHR** **RGW80TS65DHR** **RGW80TS65EHR** **RGW80TS65D**	35 39 40 58	**RGW80TK65**	30	**RGW80TK65D** **RGW80TK65E**	71 72
		50	**RGW00TS65HR** **RGW00TS65**	3 9	**RGW00TS65CHR** **RGW00TS65DHR** **RGW00TS65EHR** **RGW00TS65D**	36 41 42 59	**RGW00TK65**	31	**RGW00TK65D**	73
		75	**RGWX5TS65HR** **RGWX5TS65**	4 10	**RGWX5TS65DHR** **RGWX5TS65EHR** **RGWX5TS65D**	43 44 60				
RGCL series (Low $V_{CE\ (sat)}$)	600	30	**RGCL60TS60**	11	**RGCL60TS60D**	61	**RGCL60TK60**	32	**RGCL60TK60D**	74
		40	**RGCL80TS60**	12	**RGCL80TS60D**	62	**RGCL80TK60**	33	**RGCL80TK60D**	75
RGC series (RC-IGBT)	1,800	40			**RGC80TSX8R**	45				

注1：封装采用JEDEC表示。
注2：*RGW60TS65CHR、RGW80TS65CHR、RGW00TS65CHR内置SiC肖特基势垒二极管，其他型号内置快速恢复二极管。

Field Stop Trench IGBT

●Field Stop Trench IGBT一览表 短路耐量保证产品

Series	V_{CES} (V)	I_C (A) T_C= 100°C	Package																			
																						
			TO-252		TO-263S (LPDS)/ TO-262		TO-263L (LPDL)				TO-220NFM		TO-247N/TO-247GE				TO-3PFM					
			Built-in FRD		Built-in FRD		IGBT Single		Built-in FRD		Built-in FRD		IGBT Single		Built-in FRD		IGBT Single		Built-in FRD			
RGTV series (tsc 2μsec Min)	650	30											RGTV60TS65	87	RGTV60TS65D	128	RGTV60TK65	92	RGTV60TK65D	138		
		40											RGTV80TS65	88	RGTV80TS65D	129	RGTV80TK65	93	RGTV80TK65D	139		
		50											RGTV00TS65	89	RGTV00TS65D	130	RGTV00TK65	94	RGTV00TK65D	140		
		60											RGTVX2TS65	90	RGTVX2TS65D	131						
		80											RGTVX6TS65	91	RGTVX6TS65D	132						
RGT series (tsc 5μsec Min)	650	4	RGT8BM65D	95	RGT8NS65D	97			RGT8NL65D	103	RGT8TM65D	109										
		8	RGT16BM65D	96	RGT16NS65D	98			RGT16NL65D	104	RGT16TM65D	110										
		10			RGT20NS65D	99	RGT20NL65	76	RGT20NL65D	105	RGT20TM65D	111										
		15			RGT30NS65D	100			RGT30NL65D	106	RGT30TM65D	112										
		20			RGT40NS65D	101			RGT40NL65D	107	RGT40TM65D	113			RGT40TS65D	133						
		25			RGT50NS65D	102			RGT50NL65D	108	RGT50TM65D	114			RGT50TS65D	134						
		30													RGT60TS65D	135						
		40													RGT80TS65D	136						
		50													RGT00TS65D	137						
RGS series (tsc 8μsec Min)	650	30											RGS60TS65HR	77	RGS60TS65DHR	115						
		40											RGS80TS65HR	78	RGS80TS65DHR	116						
		50											RGS00TS65HR	79	RGS00TS65DHR RGS00TS65EHR	117 118						
		75											RGSX5TS65HR	80	RGSX5TS65DHR RGSX5TS65EHR RGSX5TS65E	119 120 121						
RGS series (tsc 10μsec Min)	1,200	15											RGS30TSX2HR RGS30TSX2	81 82	RGS30TSX2DHR RGS30TSX2D	122 123						
		25											RGS50TSX2HR RGS50TSX2	83 84	RGS50TSX2DHR RGS50TSX2D	124 125						
		40											RGS80TSX2HR RGS80TSX2	85 86	RGS80TSX2DHR RGS80TSX2D	126 127						

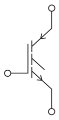
注：封装采用JEDEC表示。(　)内表示ROHM封装。

Field Stop Trench IGBT

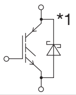
标准产品

Field Stop Trench IGBT

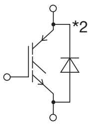
IGBT单路

No.	Part No.	V_{CES} (V)	I_C (A)		P_D (W)	$V_{CE\ (sat)}$		tsc Min (μsec)	$I_{F\ (Diode)}$ (A)		$V_{F\ (Diode)}$		Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
			Tc=25°C	Tc=100°C		Typ (V)	I_C (A)		Tc=25°C	Tc=100°C	Typ (V)	I_F (A)			
1	RGW60TS65HR	650	60	30	178	1.5	30	—	—	—	—	—	TO-247N		YES
2	RGW80TS65HR	650	78	40	214	1.5	40	—	—	—	—	—			YES
3	RGW00TS65HR	650	96	50	254	1.5	50	—	—	—	—	—			YES
4	RGWX5TS65HR	650	132	75	348	1.5	75	—	—	—	—	—			YES
5	RGW40TS65	650	40	20	136	1.5	20	—	—	—	—	—	TO-247GE		—
6	RGW50TS65	650	50	25	156	1.5	25	—	—	—	—	—			—
7	RGW60TS65	650	60	30	178	1.5	30	—	—	—	—	—			—
8	RGW80TS65	650	78	40	214	1.5	40	—	—	—	—	—			—
9	RGW00TS65	650	96	50	254	1.5	50	—	—	—	—	—			—
10	RGWX5TS65	650	132	75	348	1.5	75	—	—	—	—	—			—
11	RGCL60TS60	600	48	30	111	1.4	30	—	—	—	—	—			—
12	RGCL80TS60	600	65	40	148	1.4	40	—	—	—	—	—			—
13	RGTH40TS65	650	40	20	144	1.6	20	—	—	—	—	—			—
14	RGTH50TS65	650	50	25	174	1.6	25	—	—	—	—	—			—
15	RGTH60TS65	650	58	30	194	1.6	30	—	—	—	—	—			—
16	RGTH80TS65	650	70	40	234	1.6	40	—	—	—	—	—			—
17	RGTH00TS65	650	85	50	277	1.6	50	—	—	—	—	—			—
18	New RGWS60TS65	650	51	32	156	1.6	30	—	—	—	—	—			—
19	New RGWS80TS65	650	71	43	202	1.6	40	—	—	—	—	—			—
20	New RGWS00TS65	650	88	54	245	1.6	50	—	—	—	—	—			—
21	New RGWSX2TS65	650	104	64	288	1.6	60	—	—	—	—	—			—
22	RGTH40TK65	650	23	14	56	1.6	20	—	—	—	—	—	TO-3PFM		—
23	RGTH50TK65	650	26	16	59	1.6	25	—	—	—	—	—			—
24	RGTH60TK65	650	28	17	61	1.6	30	—	—	—	—	—			—
25	RGTH80TK65	650	31	19	66	1.6	40	—	—	—	—	—			—
26	RGTH00TK65	650	35	21	72	1.6	50	—	—	—	—	—			—
27	RGW40TK65	650	27	16	61	1.5	20	—	—	—	—	—			—
28	RGW50TK65	650	30	18	67	1.5	25	—	—	—	—	—			—
29	RGW60TK65	650	33	20	72	1.5	30	—	—	—	—	—			—
30	RGW80TK65	650	39	23	81	1.5	40	—	—	—	—	—			—
31	RGW00TK65	650	45	26	89	1.5	50	—	—	—	—	—			—
32	RGCL60TK60	600	30	18	54	1.4	30	—	—	—	—	—			—
33	RGCL80TK60	600	35	21	57	1.4	40	—	—	—	—	—			—

内置SiC肖特基势垒二极管

No.	Part No.	V_{CES} (V)	I_C (A)		P_D (W)	$V_{CE\ (sat)}$		tsc Min (μsec)	$I_{F\ (Diode)}$ (A)		$V_{F\ (Diode)}$		Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
			Tc=25°C	Tc=100°C		Typ (V)	I_C (A)		Tc=25°C	Tc=100°C	Typ (V)	I_F (A)			
34	RGW60TS65CHR	650	64	39	178	1.5	30	—	39	25	1.35	20	TO-247N		YES
35	RGW80TS65CHR	650	81	48	214	1.5	40	—	39	25	1.35	20			YES
36	RGW00TS65CHR	650	96	58	254	1.5	50	—	39	25	1.35	20			YES

快速恢复二极管内置

No.	Part No.	V_{CES} (V)	I_C (A)		P_D (W)	$V_{CE\ (sat)}$		tsc Min (μsec)	$I_{F\ (Diode)}$ (A)		$V_{F\ (Diode)}$		Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
			Tc=25°C	Tc=100°C		Typ (V)	I_C (A)		Tc=25°C	Tc=100°C	Typ (V)	I_F (A)			
37	RGW60TS65DHR	650	60	30	178	1.5	30	—	40	20	1.45	20	TO-247N		YES
38	RGW60TS65EHR	650	60	30	178	1.5	30	—	56	33	1.45	30			YES
39	RGW80TS65DHR	650	78	40	214	1.5	40	—	40	20	1.45	20			YES
40	RGW80TS65EHR	650	78	40	214	1.5	40	—	73	43	1.45	40			YES
41	RGW00TS65DHR	650	96	50	254	1.5	50	—	56	30	1.45	30			YES
42	RGW00TS65EHR	650	96	50	254	1.5	50	—	84	50	1.45	50			YES
43	RGWX5TS65DHR	650	132	75	348	1.5	75	—	73	43	1.45	40			YES
44	RGWX5TS65EHR	650	132	75	348	1.5	75	—	127	80	1.45	75			YES
45	RGC80TSX8R	1,800	80	40	535	2.2	40	—	80	40	1.80	40			—
46	RGTH40TS65D	650	40	20	144	1.6	20	—	35	20	1.45	20	TO-247GE		—
47	RGTH50TS65D	650	50	25	174	1.6	25	—	35	20	1.45	20			—
48	RGTH60TS65D	650	58	30	194	1.6	30	—	40	20	1.35	20			—
49	RGTH80TS65D	650	70	40	234	1.6	40	—	40	20	1.35	20			—
50	RGTH00TS65D	650	85	50	277	1.6	50	—	50	30	1.45	30			—
51	New RGWS60TS65D	650	51	32	156	1.6	30	—	23	13	1.45	10			—
52	New RGWS80TS65D	650	71	43	202	1.6	40	—	23	13	1.45	10			—
53	New RGWS00TS65D	650	88	54	245	1.6	50	—	23	13	1.45	10			—
54	New RGWSX2TS65D	650	104	64	288	1.6	60	—	23	13	1.45	10			—
55	RGW40TS65D	650	40	20	136	1.5	20	—	40	20	1.45	20			—
56	RGW50TS65D	650	50	25	156	1.5	25	—	40	20	1.45	20			—
57	RGW60TS65D	650	60	30	178	1.5	30	—	40	20	1.45	20			—
58	RGW80TS65D	650	78	40	214	1.5	40	—	40	20	1.45	20			—
59	RGW00TS65D	650	96	50	254	1.5	50	—	56	30	1.45	30			—
60	RGWX5TS65D	650	132	75	348	1.5	75	—	73	40	1.45	40			—
61	RGCL60TS60D	600	48	30	111	1.4	30	—	35	20	1.45	20			—
62	RGCL80TS60D	600	65	40	148	1.4	40	—	35	20	1.45	20			—
63	RGTH40TK65D	650	23	14	56	1.6	20	—	26	15	1.45	20	TO-3PFM		—
64	RGTH50TK65D	650	26	16	59	1.6	25	—	26	15	1.45	20			—
65	RGTH60TK65D	650	28	17	61	1.6	30	—	28	16	1.35	20			—
66	RGTH80TK65D	650	31	19	66	1.6	40	—	28	16	1.35	20			—
67	RGTH00TK65D	650	35	21	72	1.6	50	—	34	19	1.45	30			—
68	RGW40TK65D	650	27	16	61	1.5	20	—	27	16	1.45	20			—
69	RGW50TK65D	650	30	18	67	1.5	25	—	27	16	1.45	20			—
70	RGW60TK65D	650	33	20	72	1.5	30	—	27	16	1.45	20			—
71	RGW80TK65D	650	39	23	81	1.5	40	—	27	16	1.45	20			—
72	RGW80TK65E	650	39	23	81	1.5	40	—	46	26	1.45	50			—
73	RGW00TK65D	650	45	26	89	1.5	50	—	34	19	1.45	30			—
74	RGCL60TK60D	600	30	18	54	1.4	30	—	26	15	1.45	20			—
75	RGCL80TK60D	600	35	21	57	1.4	40	—	26	15	1.45	20			—

注：封装采用JEDEC表示。

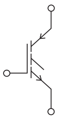
*1 内置SiC肖特基势垒二极管
*2 快速恢复二极管内置

Field Stop Trench IGBT

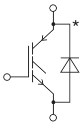
短路耐量保证产品

Field Stop Trench IGBT

IGBT单路

No.	Part No.	V_{CES} (V)	I_C (A)		P_D (W)	$V_{CE(sat)}$		tsc Min (μsec)	$I_{F(Diode)}$ (A)		$V_{F(Diode)}$		Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
			Tc=25°C	Tc=100°C		Typ (V)	I_C (A)		Tc=25°C	Tc=100°C	Typ (V)	I_F (A)			
76	RGT20NL65	650	20	10	106	1.65	10	5	—	—	—	—	TO-263L (LPDL)		—
77	RGS60TS65HR	650	56	30	223	1.65	30	8	—	—	—	—	TO-247N		YES
78	RGS80TS65HR		73	40	272	1.65	40	8	—	—	—	—			YES
79	RGS00TS65HR		88	50	326	1.65	50	8	—	—	—	—			YES
80	RGSX5TS65HR		114	75	404	1.70	75	8	—	—	—	—			YES
81	RGS30TSX2HR	1,200	30	15	267	1.70	15	10	—	—	—	—			YES
82	RGS30TSX2		30	15	267	1.70	15	10	—	—	—	—			—
83	RGS50TSX2HR		50	25	395	1.70	25	10	—	—	—	—			YES
84	RGS50TSX2		50	25	395	1.70	25	10	—	—	—	—			—
85	RGS80TSX2HR		80	40	555	1.70	40	10	—	—	—	—			YES
86	RGS80TSX2		80	40	555	1.70	40	10	—	—	—	—			—
87	RGTV60TS65	650	60	30	194	1.50	30	2	—	—	—	—	TO-247GE		—
88	RGTV80TS65		78	40	234	1.50	40	2	—	—	—	—			—
89	RGTV00TS65		95	50	276	1.50	50	2	—	—	—	—			—
90	RGTVX2TS65		111	60	319	1.50	60	2	—	—	—	—			—
91	RGTVX6TS65		144	80	404	1.50	80	2	—	—	—	—			—
92	RGTV60TK65	650	33	20	76	1.50	30	2	—	—	—	—	TO-3PFM		—
93	RGTV80TK65		39	23	85	1.50	40	2	—	—	—	—			—
94	RGTV00TK65		45	26	94	1.50	50	2	—	—	—	—			—

快速恢复二极管内置

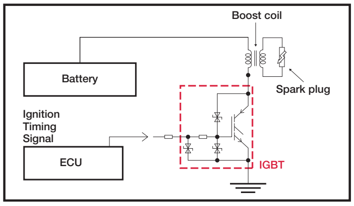
No.	Part No.	V_{CES} (V)	I_C (A)		P_D (W)	$V_{CE(sat)}$		tsc Min (μsec)	$I_{F(Diode)}$ (A)		$V_{F(Diode)}$		Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
			Tc=25°C	Tc=100°C		Typ (V)	I_C (A)		Tc=25°C	Tc=100°C	Typ (V)	I_F (A)			
95	RGT8BM65D	650	8	4	62	1.65	4	5	7	4	1.45	4	TO-252		—
96	RGT16BM65D		16	8	94	1.65	8	5	16	8	1.40	8			—
97	RGT8NS65D	650	8	4	65	1.65	4	5	7	4	1.45	4	TO-263S (LPDS)/ TO-262		—
98	RGT16NS65D		16	8	94	1.65	8	5	16	8	1.40	8			—
99	RGT20NS65D		20	10	106	1.65	10	5	16	8	1.40	8			—
100	RGT30NS65D		30	15	133	1.65	15	5	26	15	1.50	15			—
101	RGT40NS65D		40	20	161	1.65	20	5	35	20	1.45	20			—
102	RGT50NS65D		48	25	194	1.65	25	5	35	20	1.45	20			—
103	RGT8NL65D	650	8	4	65	1.65	4	5	7	4	1.45	4	TO-263L (LPDL)		—
104	RGT16NL65D		16	8	94	1.65	8	5	16	8	1.40	8			—
105	RGT20NL65D		20	10	106	1.65	10	5	16	8	1.40	8			—
106	RGT30NL65D		30	15	133	1.65	15	5	26	15	1.50	15			—
107	RGT40NL65D		40	20	161	1.65	20	5	35	20	1.45	20			—
108	RGT50NL65D		48	25	194	1.65	25	5	35	20	1.45	20			—
109	RGT8TM65D	650	5	3	16	1.65	4	5	5	3	1.45	4	TO-220NFM		—
110	RGT16TM65D		9	5	22	1.65	8	5	13	7	1.40	8			—
111	RGT20TM65D		10	6	25	1.65	10	5	13	7	1.40	8			—
112	RGT30TM65D		14	8	32	1.65	15	5	17	9	1.50	15			—
113	RGT40TM65D		17	10	39	1.65	20	5	22	13	1.45	20			—
114	RGT50TM65D		21	13	47	1.65	25	5	22	13	1.45	20			—
115	RGS60TS65DHR	650	56	30	223	1.65	30	8	56	30	1.45	30	TO-247N		YES
116	RGS80TS65DHR		73	40	272	1.65	40	8	56	30	1.45	30			YES
117	RGS00TS65DHR		88	50	326	1.65	50	8	56	30	1.45	30			YES
118	RGS00TS65EHR		88	50	326	1.65	50	8	84	50	1.45	50			YES
119	RGSX5TS65DHR		114	75	404	1.70	75	8	84	50	1.45	50			YES
120	RGSX5TS65EHR		114	75	404	1.70	75	8	127	75	1.45	75			YES
121	RGSX5TS65E		114	75	404	1.70	75	8	127	75	1.45	75			—
122	RGS30TSX2DHR	1,200	30	15	267	1.70	15	10	30	15	1.65	15			YES
123	RGS30TSX2D		30	15	267	1.70	15	10	30	15	1.65	15			—
124	RGS50TSX2DHR		50	25	395	1.70	25	10	50	25	1.65	25			YES
125	RGS50TSX2D		50	25	395	1.70	25	10	50	25	1.65	25			—
126	RGS80TSX2DHR		80	40	555	1.70	40	10	80	40	1.65	40			YES
127	RGS80TSX2D		80	40	555	1.70	40	10	80	40	1.65	40			—
128	RGTV60TS65D	650	60	30	194	1.50	30	2	56	30	1.45	30	TO-247GE		—
129	RGTV80TS65D		78	40	234	1.50	40	2	73	40	1.45	40			—
130	RGTV00TS65D		95	50	276	1.50	50	2	84	50	1.45	50			—
131	RGTVX2TS65D		111	60	319	1.50	60	2	98	60	1.45	60			—
132	RGTVX6TS65D		144	80	404	1.50	80	2	127	80	1.45	80			—
133	RGT40TS65D		40	20	144	1.65	20	5	35	20	1.45	20			—
134	RGT50TS65D		48	25	174	1.65	25	5	35	20	1.45	20			—
135	RGT60TS65D		55	30	194	1.65	30	5	40	20	1.35	20			—
136	RGT80TS65D		70	40	234	1.65	40	5	40	20	1.35	20			—
137	RGT00TS65D		85	50	277	1.65	50	5	50	30	1.45	30			—
138	RGTV60TK65D	650	33	20	76	1.50	30	2	34	19	1.45	30	TO-3PFM		—
139	RGTV80TK65D		39	23	85	1.50	40	2	40	23	1.45	40			—
140	RGTV00TK65D		45	26	94	1.50	50	2	46	26	1.45	50			—

注：封装采用JEDEC表示。(　)内表示ROHM封装。

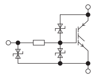
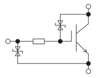
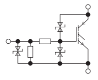
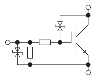
*快速恢复二极管内置

Ignition IGBT

●Ignition IGBT使用例



Ignition IGBT

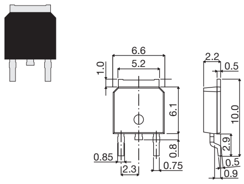
Part No.	V_{CES} (V)	V_{GES} (V)	I_c (A)	P_D (W)	E_{as} (mJ)	$V_{CE\ (sat)}$ Typ (V)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
RGPZ10BM40FH	430±30	±10	20	107	250	1.6	TO-252		YES
☆RGPZ30BM56HR	560±30	±10	30	166	300	1.4	TO-252		YES
RGPR10BM40FH	430±30	±10	20	107	250	1.6	TO-252		YES
☆RGPR20BM36HR	360±30	±10	20	107	250	1.6	TO-252		YES
RGPR20NS43HR	430±30	±10	20	107	250	1.6	TO-263S (LPDS)		YES
RGPR20NL43HR	430±30	±10	20	107	250	1.6	TO-263L (LPDL)		YES
☆RGPR30BM56HR	560±30	±10	30	166	300	1.4	TO-252		YES
RGPR30BM40HR	400±30	±10	30	125	300	1.6	TO-252		YES
RGPR30NS40HR	400±30	±10	30	125	300	1.6	TO-263S (LPDS)		YES
RGPR50NL45HRB	450±30	±10	45	187	500	1.6	TO-263L (LPDL)		YES

注：封装采用JEDEC表示。(　)内表示ROHM封装。

☆: 开发中

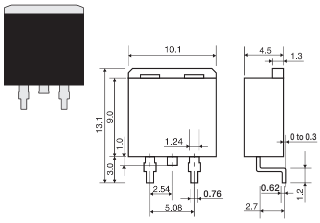
●外形尺寸图 (单位：mm)

TO-252



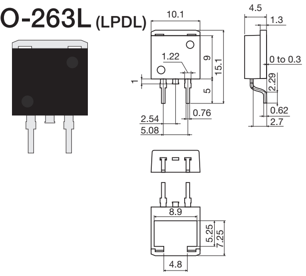
Each lead has same dimensions

TO-263S (LPDS)



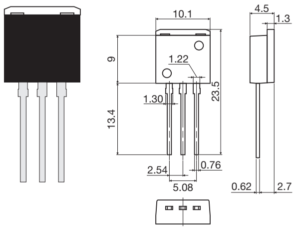
Each lead has same dimensions

TO-263L (LPDL)



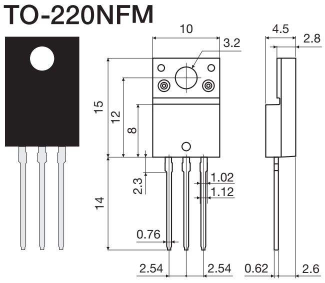
Each lead has same dimensions

TO-262



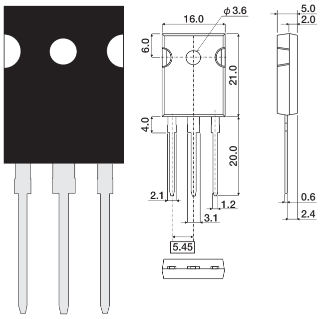
Each lead has same dimensions

TO-220NFM



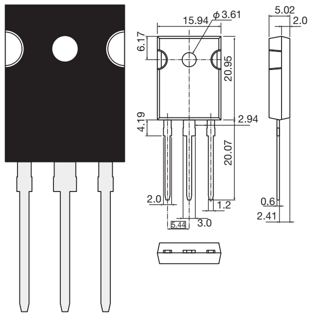
Each lead has same dimensions

TO-247N



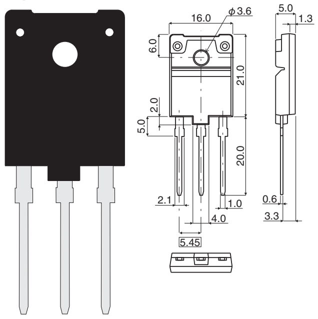
Each lead has same dimensions

TO-247GE



Each lead has same dimensions

TO-3PFM



Each lead has same dimensions

注：封装采用JEDEC表示。(　)内表示ROHM封装。

●品名构成说明

R G W □ 8 0 T S 6 5 D H R

RGW: ①　□: ②　80: ③　TS: ④　65: ⑤　D: ⑥　HR: ⑦

① IGBT
② ROHM系列名称
③ 电流(Ic)<Tc=100°C>
　例　8 → 4A
　　16 → 8A
　　30 → 15A
　　00 → 50A
　　X2 → 60A
　　X6 → 80A

④ 封装
　例　BM → TO-252
　　NS → TO-263S (LPDS)/ TO-262
　　NL → TO263L (LPDL)
　　TM → TO-220NFM
　　TS → TO-247N/TO-247GE
　　TK → TO-3PFM

⑤ 电压
　例　65 → 650V
⑥ 是否内置二极管
　C → 内置SiC肖特基势垒二极管
　D/E → 内置快速恢复二极管
　R → 内置二极管(RC-IGBT)
⑦ 表示支持车载

●封装类型

Package	Code	Packaging Style	Basic Ordering Unit (pcs)
TO-252	TL	Embossed tape	2,500
TO-263S (LPDS)	TL	Embossed tape	1,000
TO-263L (LPDL)	TL	Embossed tape	1,000
TO-262	C9	Tube	50
TO-220NFM	C9	Tube	50
TO-247N	C11	Tube	30
TO-247GE	C13	Tube	30
TO-3PFM	C11	Tube	30

注：封装采用JEDEC表示。(　)内表示ROHM封装。

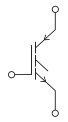
Field Stop Trench IGBT Bare Die

标准产品

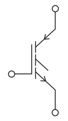
当前，产品的制造正由日本宫崎工厂移交至日本滋贺工厂，将来将全部在滋贺工厂制造。并且，晶圆的尺寸正在从6英寸切换为8英寸。关于产品规格，请参阅P145的“品名构成说明”。

Field Stop Trench IGBT Bare Die

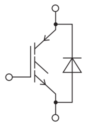
高速开关系列

Part No.	V_{CES} (V)	I_C (Nominal) (A)	$V_{CE\,(sat)}$ (Typ) (V)	$V_{GE\,(th)}$ (Typ) (V)	tsc (Min) (µs)	Operating Temperature (˚C)	Equivalent Circuit Diagram	Chip Size (mm)
MG6306WZ	650	20	1.5	6	—	−40 to +175		3.10×3.10
MG6307WZ	650	25	1.5	6	—	−40 to +175		3.35×3.35
MG6303WZ	650	30	1.5	6	—	−40 to +175		3.60×3.60
MG6304WZ	650	40	1.5	6	—	−40 to +175		4.00×4.00
MG6305WZ	650	50	1.5	6	—	−40 to +175		4.40×4.40
MG6308WZ	650	75	1.5	6	—	−40 to +175		5.25×5.25

低$V_{CE\,(sat)}$系列

Part No.	V_{CES} (V)	I_C (Nominal) (A)	$V_{CE\,(sat)}$ (Typ) (V)	$V_{GE\,(th)}$ (Typ) (V)	tsc (Min) (µs)	Operating Temperature (˚C)	Equivalent Circuit Diagram	Chip Size (mm)
MG7902WZ	600	30	1.4	5.5	—	−40 to +175		2.78×2.78
MG7901WZ	600	40	1.4	5.5	—	−40 to +175		3.26×3.26

Reverse Conducting系列

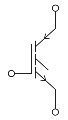
Part No.	V_{CES} (V)	I_C (Nominal) (A)	$V_{CE\,(sat)}$ (Typ) (V)	$V_{GE\,(th)}$ (Typ) (V)	tsc (Min) (µs)	Operating Temperature (˚C)	Equivalent Circuit Diagram	Chip Size (mm)
MG7405WZ	1,800	40	2.2	6	—	−40 to +175		8.20×6.00

短路耐量保证产品

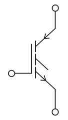
当前，产品的制造正由日本宫崎工厂移交至日本滋贺工厂，将来将全部在滋贺工厂制造。并且，晶圆的尺寸正在从6英寸切换为8英寸。关于产品规格，请参阅P145的“品名构成说明”。

Field Stop Trench IGBT Bare Die

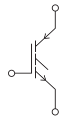
逆变器用(tsc 8-10µs)系列

Part No.	V_{CES} (V)	I_C (Nominal) (A)	$V_{CE\,(sat)}$ (Typ) (V)	$V_{GE\,(th)}$ (Typ) (V)	tsc (Min) (µs)	Operating Temperature (˚C)	Equivalent Circuit Diagram	Chip Size (mm)
MG7107WZ	650	15	1.65	6	8	−40 to +175		3.20×3.20
MG7108WZ	650	20	1.65	6	8	−40 to +175		3.50×3.50
MG7109WZ	650	25	1.65	6	8	−40 to +175		3.80×3.80
MG7104WZ	650	30	1.65	6	8	−40 to +175		4.10×4.10
MG7106WZ	650	40	1.65	6	8	−40 to +175		4.30×4.86
MG7102WZ	650	50	1.65	6	8	−40 to +175		4.30×5.92
New **SG7110WN**	650	75	1.7	6	8	−40 to +175		5.70×5.70
MG7110WZ	650	75	1.7	6	8	−40 to +175		5.70×5.70
MG7211WZ	1,200	15	1.7	6	10	−40 to +175		6.20×3.50
MG7210WZ	1,200	25	1.7	6	10	−40 to +175		5.79×5.79
MG7209WZ	1,200	40	1.7	6	10	−40 to +175		6.95×7.00
MG7212WZ	1,200	50	1.7	6	10	−40 to +175		8.60×7.00
MG7213WZ	1,200	75	1.7	6	10	−40 to +175		9.20×9.20
New **MG7214WZ**	1,200	100	1.7	6	10	−40 to +175		10.40×10.40
New **MG7215WZ**	1,200	150	1.7	6	10	−40 to +175		12.50×12.50
New **MG7216WZ**	1,200	200	1.7	6	10	−40 to +175		14.30×14.30

逆变器用(tsc 5µs)系列

Part No.	V_{CES} (V)	I_C (Nominal) (A)	$V_{CE\,(sat)}$ (Typ) (V)	$V_{GE\,(th)}$ (Typ) (V)	tsc (Min) (µs)	Operating Temperature (˚C)	Equivalent Circuit Diagram	Chip Size (mm)
New **SG6610WN**	650	20	1.65	6	5	−40 to +175		3.20×3.20
SG6612WN	650	50	1.65	6	5	−40 to +175		4.60×4.60

逆变器用(tsc 2µs)系列

Part No.	V_{CES} (V)	I_C (Nominal) (A)	$V_{CE\,(sat)}$ (Typ) (V)	$V_{GE\,(th)}$ (Typ) (V)	tsc (Min) (µs)	Operating Temperature (˚C)	Equivalent Circuit Diagram	Chip Size (mm)
MG6401WZ	650	30	1.5	6	2	−40 to +175		3.40×4.20
MG6404WZ	650	40	1.5	6	2	−40 to +175		4.20×4.20
MG6402WZ	650	50	1.5	6	2	−40 to +175		4.60×4.60
MG6405WZ	650	60	1.5	6	2	−40 to +175		5.00×5.00
MG6403WZ	650	80	1.5	6	2	−40 to +175		5.70×5.70

支持Field Stop Trench IGBT Bare Die

当前，产品的制造正由日本宫崎工厂移交至日本滋贺工厂，将来将全部在滋贺工厂制造。并且，晶圆的尺寸正在从6英寸切换为8英寸。关于产品规格，请参阅P145的“品名构成说明”。

内置用Body Diode

快速恢复二极管内置

Part No.	V_{RM} (V)	I_F (Nominal) (A)	V_F (Typ) (V)	Operating Temperature (°C)	Equivalent Circuit Diagram	Chip Size (mm)
New **SH2104WN**	650	20	1.45	−40 to +175		2.50×2.50
MH2104WZ	650	20	1.45	−40 to +175		2.50×2.50
MH2101WZ	650	30	1.45	−40 to +175		3.00×3.00
MH2106WZ	650	40	1.45	−40 to +175		3.40×3.40
SH2102WN	650	50	1.45	−40 to +175		3.70×3.70
MH2102WZ	650	50	1.45	−40 to +175		3.70×3.70
MH2107WZ	650	60	1.45	−40 to +175		4.00×4.00
New **SH2103WN**	650	80	1.45	−40 to +175		4.50×4.50
MH2103WZ	650	80	1.45	−40 to +175		4.50×4.50
MH2203WZ	1,200	15	1.65	−40 to +175		3.20×3.20
MH2201WZ	1,200	25	1.65	−40 to +175		3.80×3.80
MH2204WZ	1,200	40	1.65	−40 to +175		3.15×6.64
MH2205WZ	1,200	50	1.65	−40 to +175		4.20×6.00
MH2206WZ	1,200	75	1.65	−40 to +175		4.30×8.20
MH2207WZ	1,200	100	1.65	−40 to +175		5.00×9.00
MH2208WZ	1,200	150	1.65	−40 to +175		6.00×11.00
MH2209WZ	1,200	200	1.65	−40 to +175		6.50×13.00

●品名构成说明

M G 7 2 1 4 W Z

① ② ③ ④ ⑤

① 表示制造工厂
M: 宫崎
S: 滋贺
② G: 表示IGBT Bare Die
H: 表示Fast Recovery Diode Bare Die
③ 制造No.
④ 金属规格
W: 通用品
⑤ 晶圆尺寸
Z: 6英寸
N: 8英寸

M H 2 1 0 4 W Z

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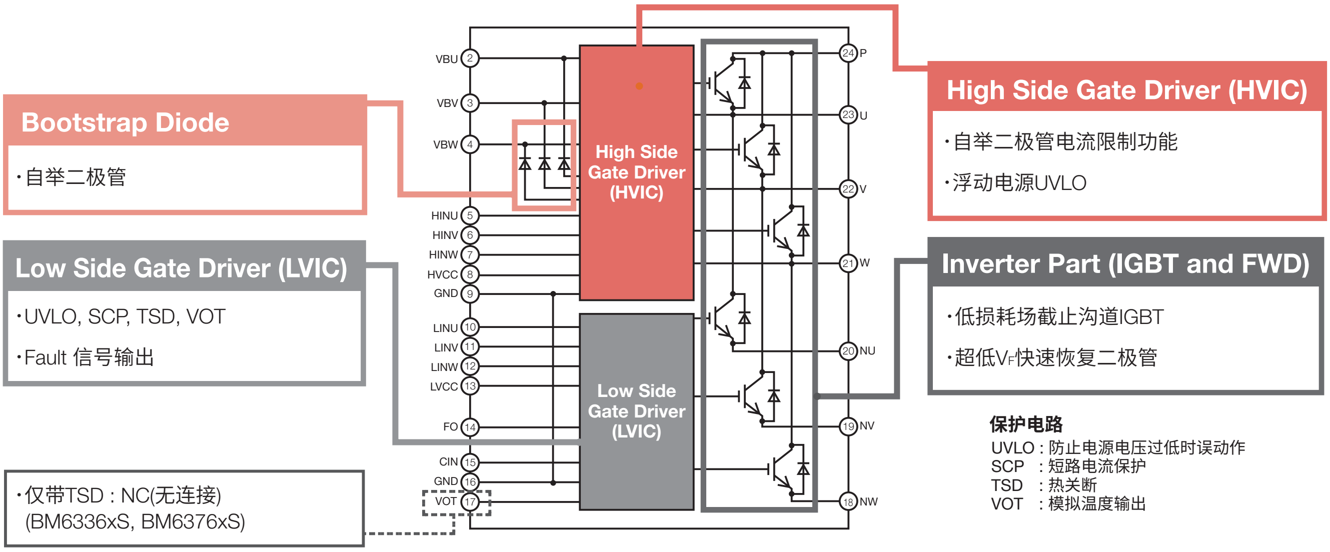
IPM(智能功率模块)

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

IPM(智能功率模块)

●方框图

IGBT-IPM



Bootstrap Diode

- 自举二极管

Low Side Gate Driver (LVIC)

- UVLO, SCP, TSD, VOT
- Fault 信号输出

- 仅带TSD：NC(无连接)
  (BM6336xS, BM6376xS)

High Side Gate Driver (HVIC)

- 自举二极管电流限制功能
- 浮动电源UVLO

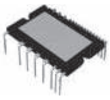
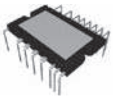
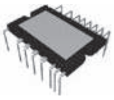
Inverter Part (IGBT and FWD)

- 低损耗场截止沟道IGBT
- 超低V_F快速恢复二极管

保护电路

UVLO：防止电源电压过低时误动作
SCP ：短路电流保护
TSD ：热关断
VOT ：模拟温度输出

●IPM(智能功率模块)一览表

V_{DSS}/V_{CES} (V)	I_D/I_C (A)	IGBT-IPM			
		Gen.2		Gen.3	
		 HSDIP25	 HSDIP25-VC	 HSDIP25	 HSDIP25-VC
		Thermal Protective Function*		Thermal Protective Function*	
		TSD	VOT	TSD & VOT	VOT
600	10	BM63363S-VA BM63363S-VC BM63763S-VA BM63763S-VC	BM63563S-VA BM63563S-VC BM63963S-VA BM63963S-VC	BM63373S-VA BM63373S-VC	BM63573S-VA BM63573S-VC
	15	BM63364S-VA BM63364S-VC BM63764S-VA BM63764S-VC	BM63564S-VA BM63564S-VC BM63964S-VA BM63964S-VC	BM63374S-VA BM63374S-VC BM64374S-VA	BM63574S-VA BM63574S-VC
	20			BM63375S-VA BM63375S-VC BM64375S-VA	BM63575S-VA BM63575S-VC
	30	BM63767S-VA BM63767S-VC	BM63967S-VA BM63967S-VC	BM63377S-VA BM63377S-VC BM64377S-VA	BM63577S-VA BM63577S-VC
	35			BM64378S-VA	

*TSD：Thermal Shut Down、VOT：模拟温度输出

IPM(智能功率模块)

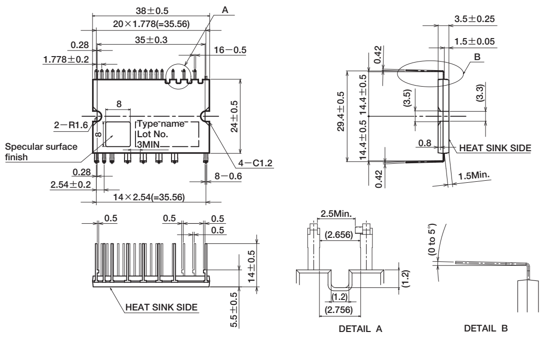
IGBT-IPM

Generation	Part No.	Power Device	V_{CES} (V)	I_C (A)	PWM Input Frequency (kHz)	Isolation Voltage*1 (Vrms)	Thermal Protective Function*2		Package
							TSD	VOT	
Gen.2	**BM63363S-VA**	IGBT	600	10	up to 6	1,500	✓		HSDIP25
	BM63363S-VC						✓		HSDIP25VC
	BM63563S-VA							✓	HSDIP25
	BM63563S-VC							✓	HSDIP25VC
	BM63763S-VA				up to 20		✓		HSDIP25
	BM63763S-VC						✓		HSDIP25VC
	BM63963S-VA							✓	HSDIP25
	BM63963S-VC							✓	HSDIP25VC
	BM63364S-VA			15	up to 6		✓		HSDIP25
	BM63364S-VC						✓		HSDIP25VC
	BM63564S-VA							✓	HSDIP25
	BM63564S-VC							✓	HSDIP25VC
	BM63764S-VA				up to 20		✓		HSDIP25
	BM63764S-VC						✓		HSDIP25VC
	BM63964S-VA							✓	HSDIP25
	BM63964S-VC							✓	HSDIP25VC
	BM63767S-VA			30			✓		HSDIP25
	BM63767S-VC						✓		HSDIP25VC
	BM63967S-VA							✓	HSDIP25
	BM63967S-VC							✓	HSDIP25VC
Gen.3	**BM63373S-VA**	IGBT	600	10	up to 20	1,500	✓	✓	HSDIP25
	BM63373S-VC						✓	✓	HSDIP25VC
	BM63573S-VA							✓	HSDIP25
	BM63573S-VC							✓	HSDIP25VC
	BM63374S-VA			15			✓	✓	HSDIP25
	BM63374S-VC						✓	✓	HSDIP25VC
	BM63574S-VA							✓	HSDIP25
	BM63574S-VC							✓	HSDIP25VC
	BM64374S-VA						✓	✓	HSDIP25
	BM63375S-VA			20			✓	✓	HSDIP25
	BM63375S-VC						✓	✓	HSDIP25VC
	BM63575S-VA							✓	HSDIP25
	BM63575S-VC							✓	HSDIP25VC
	BM64375S-VA						✓	✓	HSDIP25
	BM63377S-VA			30			✓	✓	HSDIP25
	BM63377S-VC						✓	✓	HSDIP25VC
	BM63577S-VA							✓	HSDIP25
	BM63577S-VC							✓	HSDIP25VC
	BM64377S-VA						✓	✓	HSDIP25
	BM64378S-VA			35			✓	✓	HSDIP25

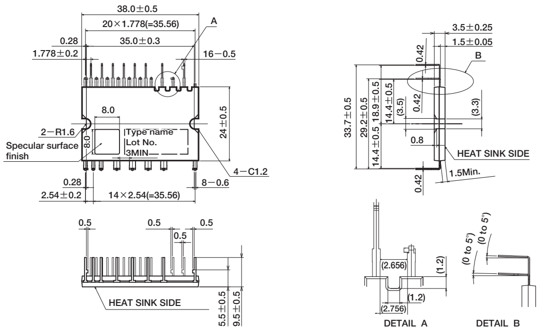
*1 AC60Hz、1min.、使用凸型散热片时支持2,500Vrms *2 TSD：Thermal Shut Down、VOT：模拟温度输出

●外形尺寸图 (单位：mm)

HSDIP25 (Long pin type)



HSDIP25VC (Staggered type)



●品名构成说明

B M 6 3 3 6 4 S **-xx**

型号

封装

S	HSDIP25 HSDIP25VC

包装、成形规格

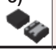
VA	Tube, Long pin type (HSDIP25)
VC	Tube, Staggered type (control side) (HSDIP25VC)

晶体管

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

小信号MOSFET

小信号MOSFET系列

Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_a=25°C)	$R_{DS(on)}$ (Ω)															
	Part No.	Packing code					V_{GS}=10V		V_{GS}=4.5V		V_{GS}=4.0V		V_{GS}=2.5V		V_{GS}=1.8V		V_{GS}=1.5V		V_{GS}=1.2V		V_{GS}=0.9V	
							Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max
DFN0604-3 (VML0604)  0604 size	RV3C002UN	T2CL	N	20	0.15	0.10	–	–	1.40	2.00	–	–	1.70	2.60	–	–	2.70	5.40	–	–	–	–
	RV3CA01ZP*1	T2CL	P	–20	–0.10	0.10	–	–	2.50	3.80	–	–	3.40	5.10	–	–	6.00	13.20	–	–	–	–
DFN0806-3 (VML0806)  0806 size	RV1C002UN	T2CL	N	20	0.15	0.10	–	–	1.40	2.00	–	–	1.70	2.60	–	–	2.70	5.40	3.80	11.40	–	–
	RV1C001ZP	T2CL	P	–20	–0.10	0.10	–	–	2.50	3.80	–	–	3.40	5.10	–	–	6.00	13.20	10.00	40.00	–	–
DFN1006-3 (VML1006)  1006 size	RV2C010UN	T2L	N	20	1.00	0.40	–	–	0.34	0.47	–	–	0.40	0.56	–	–	0.54	0.81	0.70	1.05	–	–
	RV2C002UN	T2L		20	0.18	0.10	–	–	1.40	2.00	–	–	1.70	2.60	–	–	2.70	5.40	3.80	11.40	–	–
	RV2E014AJ	T2CL		30	1.40*2	0.6*2	–	–	0.17	0.29	–	–	0.225	0.38	–	–	–	–	–	–	–	–
	RV2C014BC	T2CL	P	–20	–1.40*2	0.60*2	–	–	0.22	0.30	–	–	0.28	0.39	0.37	0.70	–	–	–	–	–	–
	RV2C001ZP	T2L		–20	–0.10	0.10	–	–	2.50	3.80	–	–	3.40	5.10	–	–	6.00	13.20	10.00	40.00	–	–
DSN1006-3 (SMM1006) 1006 size 	RA1C030LD	T5CL	N	20	3.0	1.0	–	–	0.08	0.14	–	–	0.13	0.19	0.20	–	–	–	–	–	–	–
DFN1212-3 (DFN1212-3) 1212 size 	New RV7E040AJ	TCR1	N	30	4.0	1.1	–	–	0.041	0.055	–	–	0.054	0.073	–	–	–	–	–	–	–	–
	New RV7L020GN	TCR1		60	2.0	1.1	0.123	0.164	0.172	0.281	–	–	–	–	–	–	–	–	–	–	–	–
	New RV7C040BC	TCR1	P	–20	–4.0	1.1	–	–	0.053	0.063	–	–	0.065	0.079	0.089	0.106	–	–	–	–	–	–
	New RV7E035AT	TCR1		–30	–3.5	1.1	0.065	0.080	0.091	0.113	–	–	–	–	–	–	–	–	–	–	–	–
SOT-723 (VMT3)  1212 size	RUM002N02	T2L	N	20	0.20	0.15	–	–	–	–	–	–	0.80	1.20	–	–	1.20	2.40	1.60	4.80	–	–
	RUM001L02	T2CL		20	0.10	0.15	–	–	2.50	3.50	–	–	3.00	4.20	–	–	4.50	9.00	6.00	18.00	–	–
	RYM002N05	T2CL		50	0.20	0.15	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	2.80	2.20	3.30	3.00	9.00
	RUM002N05	T2L		50	0.20	0.15	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	4.00	2.40	7.20	–	–
	RSM002N06	T2L		60	0.25	0.15	1.70	2.40	2.10	3.00	2.30	3.20	3.00	12.00	–	–	–	–	–	–	–	–
	RZM002P02	T2L	P	–20	–0.20	0.15	–	–	0.80	1.20	–	–	1.00	1.50	–	–	1.60	3.50	2.40	9.60	–	–
	RZM001P02	T2L		–20	–0.10	0.15	–	–	2.50	3.80	–	–	3.40	5.10	–	–	6.00	13.20	10.00	40.00	–	–
	RSM002P03	T2L		–30	–0.20	0.15	0.90	1.40	1.40	2.10	1.60	2.40	–	–	–	–	–	–	–	–	–	–
DFN1616-6 (DFN1616-6) 1616 size 	RV5A040AP	TCR1	P	–12	–4.00	1.50	–	–	0.044	0.062	–	–	0.055	0.077	0.075	0.110	0.090	0.180	–	–	–	–
	RV5C040AP	TCR1		–20	–4.00	1.50	–	–	0.060	0.085	–	–	0.065	0.095	0.095	0.155	0.130	0.260	–	–	–	–
SOT-416FL (EMT3F)  1616 size	RE1C002UN	TCL	N	20	0.20	0.15	–	–	–	–	–	–	0.80	1.20	–	–	1.20	2.40	1.60	4.80	–	–
	RE1C001UN	TCL		20	0.10	0.20	–	–	2.50	3.50	–	–	3.00	4.20	–	–	4.50	9.00	6.00	18.00	–	–
	RE1J002YN	TCL		50	0.20	0.15	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	2.80	2.20	3.30	3.00	9.00
	RE1L002SN	TL		60	0.25	0.15	1.70	2.40	2.10	3.00	2.30	3.20	3.00	12.00	–	–	–	–	–	–	–	–
	RE1C002ZP	TL	P	–20	–0.20	0.15	–	–	0.80	1.20	–	–	1.00	1.50	–	–	1.60	3.50	2.40	9.60	–	–
	RE1C001ZP	TL		–20	–0.10	0.20	–	–	2.50	3.80	–	–	3.40	5.10	–	–	6.00	13.20	10.00	40.00	–	–
	RE1E002SP	TCL		–30	–0.25	0.20	0.90	1.40	1.40	2.10	1.60	2.40	–	–	–	–	–	–	–	–	–	–
SOT-323 2021 size 	BSS138BKW	T106	N	60	0.38	0.30	0.50	0.70	0.60	0.84	–	–	1.00	4.00	–	–	–	–	–	–	–	–
	BSS138W	T106		60	0.31	0.30	1.70	2.40	2.10	3.00	–	–	3.00	12.00	–	–	–	–	–	–	–	–
	BSS84W	T106	P	–60	–0.21	0.30	2.80	5.30	3.50	6.40	–	–	–	–	–	–	–	–	–	–	–	–
SOT-323FL (UMT3F)  2021 size	RU1C002UN	TCL	N	20	0.20	0.20	–	–	–	–	–	–	0.80	1.20	–	–	1.20	2.40	1.60	4.80	–	–
	RU1C001UN	TCL		20	0.10	0.20	–	–	2.50	3.50	–	–	3.00	4.20	–	–	4.50	9.00	6.00	18.00	–	–
	RU1J002YN	TCL		50	0.20	0.20	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	2.80	2.20	3.30	3.00	9.00
	RU1L002SN	TL		60	0.25	0.20	1.70	2.40	2.00	3.00	2.30	3.20	3.00	12.00	–	–	–	–	–	–	–	–
	RU1C002ZP	TCL	P	–20	–0.20	0.20	–	–	0.80	1.20	–	–	1.00	1.50	–	–	1.60	3.50	2.40	9.60	–	–
	RU1C001ZP	TL		–20	–0.10	0.20	–	–	2.50	3.80	–	–	3.40	5.10	–	–	6.00	13.20	10.00	40.00	–	–
	RU1E002SP	TCL		–30	–0.25	0.20	0.90	1.40	1.40	2.10	1.60	2.40	–	–	–	–	–	–	–	–	–	–

注1：(　)内表示ROHM封装。
注2：*1 过电压保护用　*2 P_W≤5s

小信号MOSFET系列

Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_a=25°C)	$R_{DS\,(on)}$ (Ω)															
	Part No.	Packing code					V_{GS}=10V		V_{GS}=4.5V		V_{GS}=4.0V		V_{GS}=2.5V		V_{GS}=1.8V		V_{GS}=1.5V		V_{GS}=1.2V		V_{GS}=0.9V	
							Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max
TO-236AB SOT-23 (SST3) 	**RYC002N05**	T316	N	50	0.20	0.20	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	2.80	2.20	3.30	3.00	9.00
	RUC002N05	T116		50	0.20	0.20	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	4.00	2.40	7.20	–	–
	BSS670	T116		60	0.65	0.35	0.50	0.65	0.60	0.82	–	–	1.00	4.00	–	–	–	–	–	–	–	–
	BSS138BK	T116		60	0.40	0.35	0.50	0.70	0.60	0.84	–	–	1.00	4.00	–	–	–	–	–	–	–	–
	RK7002BM	T116		60	0.25	0.20	1.70	2.40	2.10	3.00	2.30	3.20	3.00	12.00	–	–	–	–	–	–	–	–
	RSC002P03	T316	P	–30	–0.25	0.20	0.90	1.40	1.40	2.10	1.60	2.40	–	–	–	–	–	–	–	–	–	–
	BSS84	T116		–60	–0.23	0.35	3.60	5.30	4.30	6.40	–	–	–	–	–	–	–	–	–	–	–	–
SOT-563 (EMT6) 1616 size 	**EM6K6**	T2R	N+N	20	0.30	0.15	–	–	–	–	0.70	1.00	0.80	1.20	1.00	1.40	–	–	–	–	–	–
	EM6K7	T2CR		20	0.20	0.15	–	–	–	–	–	–	0.80	1.20	–	–	1.20	2.40	1.60	4.80	–	–
	EM6K33	T2R		50	0.20	0.15	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	4.00	2.40	7.20	–	–
	EM6K34	T2CR		50	0.20	0.15	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	2.80	2.20	3.30	3.00	9.00
	EM6K31	T2R		60	0.25	0.15	1.70	2.40	2.10	3.00	2.30	3.20	3.00	12.00	–	–	–	–	–	–	–	–
	EM6J1	T2R	P+P	–20	–0.20	0.15	–	–	0.80	1.20	–	–	1.00	1.50	–	–	1.60	3.50	2.40	9.60	–	–
	EM6M2	T2R	N+P	20	0.20	0.15	–	–	–	–	0.70	1.00	0.80	1.20	1.00	1.40	1.20	2.40	1.60	4.80	–	–
				–20	–0.20	0.15	0.80	1.20	–	–	1.00	1.50	1.30	2.20	1.60	3.50	2.40	9.60	–	–	–	–
SOT-363 (UMT6) 2021 size 	**UM6K34N**	TCN	N+N	50	0.20	0.15	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	2.80	2.20	3.30	3.00	9.00
	UM6K33N	TN		50	0.20	0.15	–	–	1.60	2.20	–	–	1.70	2.40	–	–	2.00	4.00	2.40	7.20	–	–
	UM6K31N	TN		60	0.25	0.15	1.70	2.40	2.10	3.00	2.30	3.20	3.00	12.00	–	–	–	–	–	–	–	–
	UM6J1N	TN	P+P	–30	–0.20	0.15	0.90	1.40	1.40	2.10	1.60	2.40	–	–	–	–	–	–	–	–	–	–

注1：(　)内表示ROHM封装。

功率MOSFET

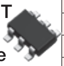
功率MOSFET系列

Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_a=25°C)	$R_{DS\,(on)}$ (mΩ)										Qg (nC) (V_{GS}=4.5)
	Part No.	Packing code					V_{GS}=10V		V_{GS}=4.5V		V_{GS}=4.0V		V_{GS}=2.5V		V_{GS}=1.5V		
							Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	
SOT-323T (TUMT3) 2021 size 	**RUF025N02**	TL	N	20	2.5	0.8	–	–	39	54	–	–	49	68	80	160	5
	RUF020N02	TL		20	2	0.8	–	–	75	105	–	–	95	135	170	240	2
	RUF015N02	TL		20	1.5	0.8	–	–	130	180	–	–	170	240	220*1	310*1	1.8
	RTF025N03	TL		30	2.5	0.8	–	–	48	67	50	70	70	98	–	–	3.7
	RSF014N03	TL		30	1.4	0.8	170	240	250	350	270	380	–	–	–	–	1.4*2
	RTF016N05	TL		45	1.6	0.8	–	–	140	190	150	210	200	280	–	–	2.3
	RSF015N06	TL		60	1.5	0.8	210	290	240	330	255	350	–	–	–	–	2*2
	RAF040P01	TCL	P	–12	–4	0.8	–	–	22	30	–	–	27	38	40	68	37
	RZF030P01	TL		–12	–3	0.8	–	–	28	39	–	–	39	54	72	144	18
	RZF020P01	TL		–12	–2	0.8	–	–	75	105	–	–	105	145	200	400	6.5
	RZF013P01	TL		–12	–1.3	0.8	–	–	190	260	–	–	280	390	530	1,060	2.4
	RRF015P03	TL		–30	–1.5	0.8	115	160	170	240	190	270	–	–	–	–	3.2*2
	RSF010P05	TL		–45	–1	0.8	330	460	450	630	490	690	–	–	–	–	2.3*2
SOT-363T (TUMT6) 2021 size 	**RUL035N02**	TR	N	20	3.5	1	–	–	31	43	–	–	38	53	66	93	5.7
	RF6E065BN	TCR		30	6.5	1	12.9	15.3	18.5	22.7	–	–	–	–	–	–	8.3
	RF6E045AJ	TCR		30	4.5	1	–	–	16.9	23.7	–	–	23.9	33.5	–	–	8.1
	RTL035N03	TR		30	3.5	1	–	–	40	56	42	59	56	79	–	–	4.6
	RXL035N03	TCR		30	3.5	1	35	50	45	65	50	70	–	–	–	–	3.3*2
	New **RF6G035BG**	TCR		40	3.5	1	37	46	59	80	–	–	–	–	–	–	1.8
	New **RF6L025BG**	TCR		60	2.5	1	70	91	100	140	–	–	–	–	–	–	1.7
	RAL035P01	TR	P	–12	–3.5	1	–	–	30	42	–	–	40	56	75	150	22
	RAL025P01	TR		–12	–2.5	1	–	–	44	62	–	–	55	77	90	180	16
	RF6C055BC	TCR		–20	–5.5	1	–	–	19.5	25.7	–	–	24.7	33.1	33.7	63.6	15.2
	RRL035P03	TR		–30	–3.5	1	36	50	52	72	58	81	–	–	–	–	8*2
	US6K4	TR	N+N	20	1.5	1	–	–	130	180	–	–	170	240	220*1	310*1	1.8
	US6K1	TR		30	1.5	1	–	–	170	240	180	250	240	340	–	–	1.6
	US6K2	TR		30	1.4	1	170	240	250	350	270	380	–	–	–	–	1.4*2
	US6J12	TCR	P+P	–12	–2	1	–	–	75	105	–	–	105	145	200	400	7.6
	US6J11	TR		–12	–1.3	1	–	–	190	260	–	–	280	390	530	1,060	2.4
	US6M11	TR	N+P	20	1.5	1	–	–	130	180	–	–	170	240	300	600	1.8
				–12	–1.3	1	–	–	190	260	–	–	280	390	530	1,060	2.4
	US6M2	TR		30	1.5	1	–	–	170	240	180	250	240	340	–	–	1.6
				–20	–1	1	–	–	280	390	310	430	570	800	–	–	2.1
	US6M1	TR		30	1.4	1	170	240	250	350	270	380	–	–	–	–	1.4*2
				–20	–1	1	–	–	280	390	310	430	570	800	–	–	2.1

注1：(　)内表示ROHM封装。
注2：*1 V_{GS}=1.8V　*2 V_{GS}=5V

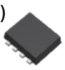
功率MOSFET

功率MOSFET系列

Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_a=25°C)	$R_{DS\,(on)}$ (mΩ)												Qg (nC) (V_{GS}=4.5)
	Part No.	Packing code					V_{GS}=10V		V_{GS}=4.5V		V_{GS}=4.0V		V_{GS}=2.5V		V_{GS}=1.8V		V_{GS}=1.5V		
							Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	
SOT-346T (TSMT3) 2928 size 	RUR040N02	TL	N	20	4	1	–	–	25	35	–	–	33	46	42	59	55	110	8
	RUR020N02	TL		20	2	1	–	–	75	105	–	–	95	135	130	185	170	240	2
	RQ5E070BN	TCL		30	7	1	12.4	16.1	16.5	20.4	–	–	–	–	–	–	–	–	11.7
	RQ5E065AJ	TCL		30	6.5	1	–	–	13.7	18.1	–	–	17.9	23.7	–	–	–	–	12.2
	RQ5E040TN	TL		30	4	1	–	–	34	48	36	50	47	66	–	–	–	–	5.9
	RQ5E040AJ	TCL		30	4	1	–	–	27	37	–	–	39	54	–	–	–	–	4.3
	RQ5E035XN	TCL		30	3.5	1	35	50	45	65	50	70	–	–	–	–	–	–	3.3*1
	RQ5E035BN	TCL		30	3.5	1	28	37	43	56	–	–	–	–	–	–	–	–	3.1
	RQ5E030AJ	TCL		30	3	1	–	–	57	75	–	–	81	109	–	–	–	–	2.1
	RQ5E025SN	TL		30	2.5	1	50	70	74	105	83	118	–	–	–	–	–	–	2.9*1
	RQ5E025TN	TL		30	2.5	1	–	–	66	92	70	98	95	133	–	–	–	–	3.3
	RQ5H030TN	TL		45	3	1	–	–	48	67	53	74	68	95	–	–	–	–	6.2
	RQ5H025TN	TL		45	2.5	1	–	–	95	130	100	140	125	175	–	–	–	–	3.2
	RQ5H020TN	TL		45	2	1	–	–	130	180	135	190	180	250	–	–	–	–	2.9
	New RQ5L045BG	TCL		60	4.5	1	24	32	33	49	–	–	–	–	–	–	–	–	3.9
	RQ5L030SN	TL		60	3	1	60	85	70	100	75	105	–	–	–	–	–	–	5*1
	RQ5L020SN	TL		60	2	1	120	170	140	195	150	210	–	–	–	–	–	–	2.7*1
	New RQ5P035BG	TCL		100	3.5	1	46	60	58	81	–	–	–	–	–	–	–	–	3.3
	RQ5P010SN	TL		100	1	1	370	520	400	560	410	580	–	–	–	–	–	–	3.5*1
	RQ5A040ZP	TL	P	–12	–4	1	–	–	22	30	–	–	30	42	40	60	55	110	30
	RQ5A030AP	TL		–12	–3	1	–	–	44	62	–	–	55	77	75	110	90	180	16
	RQ5A025ZP	TL		–12	–2.5	1	–	–	44	61	–	–	60	84	81	121	110	220	13
	RQ5A020ZP	TL		–12	–2	1	–	–	75	105	–	–	105	145	150	225	200	400	6.5
	RQ5C060BC	TCL		–20	–6	1	–	–	16.1	21.1	–	–	20.3	26.9	27.4	51.0	–	–	19.2
	RQ5C035BC	TCL		–20	–3.5	1	–	–	42	59	–	–	54	76	84	135	–	–	6.5
	RQ5C030TP	TL		–20	–3	1	–	–	55	75	60	85	90	125	–	–	–	–	9.3
	RQ5C025TP	TL		–20	–2.5	1	–	–	70	95	75	105	115	160	–	–	–	–	7
	RQ5C020TP	TL		–20	–2	1	–	–	100	135	110	150	180	250	–	–	–	–	4.9
	RQ5E050AT	TCL		–30	–5	1	21	26	30	37	–	–	–	–	–	–	–	–	9.7
	RQ5E040RP	TL		–30	–4	1	32	45	45	63	52	72	–	–	–	–	–	–	10.5*1
	RQ5E035AT	TCL		–30	–3.5	1	38	50	54	70	–	–	–	–	–	–	–	–	5.2
	RQ5E030RP	TL		–30	–3	1	55	75	85	115	95	125	–	–	–	–	–	–	5.2*1
	RQ5E025SP	TL		–30	–2.5	1	70	98	100	140	115	160	–	–	–	–	–	–	5.4*1
	RQ5E025AT	TCL		–30	–2.5	1	70	91	104	135	–	–	–	–	–	–	–	–	2.7
	RQ5E020SP	TL		–30	–2	1	85	120	135	190	150	210	–	–	–	–	–	–	4.3*1
	RQ5E015RP	TL		–30	–1.5	1	115	160	170	240	190	270	–	–	–	–	–	–	3.2*1
	RQ5H020SP	TL		–45	–2	1	130	190	180	260	200	280	–	–	–	–	–	–	9.5*2
	RQ5L015SP	TL		–60	–1.5	1	200	280	240	340	255	360	–	–	–	–	–	–	10*2
SOT-25T (TSMT5) 2928 size 	QS5K2	TR	N+N	30	2	1.25	–	–	71	100	76	107	110	154	–	–	–	–	2.8
SOT-457T (TSMT6) 2928 size 	RQ6C050UN	TR	N	20	5	1.25	–	–	22	30	–	–	27	38	32	45	40	80	12
	RQ6E085BN	TCR		30	8.5	1.25	11.1	14.4	13.9	17.3	–	–	–	–	–	–	–	–	16.6
	RQ6E080AJ	TCR		30	8	1.25	–	–	12.5	16.5	–	–	15.7	19.5	–	–	–	–	16.2
	RQ6E055BN	TR		30	5.5	1.25	19	25	30	39	–	–	–	–	–	–	–	–	4.4
	RQ6E050AJ	TCR		30	5	1.25	–	–	26	35	–	–	38	50	–	–	–	–	4.7
	RQ6E045BN	TCR		30	4.5	1.25	21	30	35	49	–	–	–	–	–	–	–	–	4.7
	RQ6E045TN	TR		30	4.5	1.25	–	–	30	43	32	45	42	60	–	–	–	–	7.6
	RQ6E045SN	TR		30	4.5	1.25	27	38	36	51	40	56	–	–	–	–	–	–	6.8*1
	RQ6E040XN	TCR		30	4	1.25	35	50	45	65	50	70	–	–	–	–	–	–	33*1
	RQ6E035TN	TR		30	3.5	1.25	–	–	38	54	40	56	55	77	–	–	–	–	4.6
	RTQ020N03	TR		30	2	1.25	–	–	89	125	94	132	138	194	–	–	–	–	2.4
	RVQ040N05	TR		45	4	1.25	38	53	47	66	53	74	–	–	–	–	–	–	6.3*1
	RTQ020N05	TR		45	2	1.25	–	–	140	190	150	210	200	280	–	–	–	–	2.3
	RSQ015N06	TR		60	1.5	1.25	210	290	240	330	255	350	–	–	–	–	–	–	2*1
	QS6K1	TR	N+N	30	1	1.25	–	–	170	238	180	252	260	364	–	–	–	–	1.7
	QS6K21	TR		45	1	1.25	–	–	300	420	310	435	415	585	–	–	–	–	1.5
	RQ6A050ZP	TR	P	–12	–5	1.25	–	–	19	26	–	–	26	36	33	49	44	88	35
	RQ6A045AP	TCR		–12	–4.5	1.25	–	–	22	30	–	–	28	39	38	57	50	100	40
	RAQ045P01	TCR		–12	–4.5	1.25	–	–	22	30	–	–	28	39	38	57	50	100	40
	RQ6A045ZP	TR		–12	–4.5	1.25	–	–	25	35	–	–	31	43	39	58	50	100	31
	RQ6C065BC	TCR		–20	–6.5	1.25	–	–	14.9	21	–	–	18.6	26	25	50	–	–	22
	RQ6C050BC	TCR		–20	–5	1.25	–	–	27	36	–	–	35	47	48	77	–	–	10.4
	RQ6E060AT	TCR		–30	–6	1.25	20.3	26.4	26.8	34.6	–	–	–	–	–	–	–	–	12.9
	RQ6E050AT	TCR		–30	–5	1.25	21	27	29	38	–	–	–	–	–	–	–	–	10.4
	RQ6E045RP	TR		–30	–4.5	1.25	25	35	34	48	38	53	–	–	–	–	–	–	14*1
	RRQ045P03	TR		–30	–4.5	1.25	25	35	34	48	38	53	–	–	–	–	–	–	14*1
	RQ6E035AT	TCR		–30	–3.5	1.25	38	50	54	70	–	–	–	–	–	–	–	–	5.2
	RQ6E035SP	TR		–30	–3.5	1.25	45	65	65	90	70	95	–	–	–	–	–	–	9.2*1
	RQ6E030AT	TCR		–30	–3	1.25	70	91	104	135	–	–	–	–	–	–	–	–	2.7
	RQ6E030SP	TR		–30	–3	1.25	60	80	90	125	100	140	–	–	–	–	–	–	6*1
	RRQ020P03	TR		–30	–2	1.25	115	160	170	240	190	270	–	–	–	–	–	–	3.2*1
	RQ6G050AT	TCR		–40	–5	1.25	31	40	38	49	–	–	–	–	–	–	–	–	11
	RQ6L035AT	TCR		–60	–3.5	1.25	62	78	69	87	–	–	–	–	–	–	–	–	11
	RQ6L020SP	TCR		–60	–2	1.25	150	210	180	252	190	266	–	–	–	–	–	–	7.2*1
	RQ6P020AT	TCR		–100	–2	1.25	166	220	177	230	–	–	–	–			–	–	12
	RQ6P015SP	TR		–100	–1.5	1.25	350	470	380	510	400	540	–	–	–	–	–	–	17*1
	QS6J11	TR	P+P	–12	–2	1.25	–	–	75	105	–	–	105	145	150	225	200	400	6.5
	QS6J1	TR		–20	–1.5	1.25	–	–	155	215	170	235	310	430	–	–	–	–	3
	QS6M4	TR	N+P	30	1.5	1.25	–	–	170	230	180	245	260	360	–	–	–	–	1.6
				–20	–1.5	1.25	–	–	155	215	170	235	310	430	–	–	–	–	3

注1：( )内表示ROHM封装。 注2：*1 V_{GS}=5V *2 V_{GS}=10V

功率MOSFET系列

Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_a=25°C)	$R_{DS(on)}$ (mΩ)												Qg (nC) (V_{GS}=4.5)
	Part No.	Packing code					V_{GS}=10V		V_{GS}=4.5V		V_{GS}=4.0V		V_{GS}=2.5V		V_{GS}=1.8V		V_{GS}=1.5V		
							Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	
(TSMT8) 3028 size 	RQ1C075UN	TR	N	20	7.5	1.5	—	—	11	16	—	—	14	20	17	24	20	40	18
	RQ1C065UN	TR		20	6.5	1.5	—	—	16	22	—	—	19	27	24	32	29	58	11
	RQ7E110AJ	TCR		30	11	1.5	—	—	6.8	9	—	—	9.1	12.4	—	—	—	—	22
	RQ1E100XN	TR		30	10	1.5	7.5	10.5	9.5	13.3	10	14	—	—	—	—	—	—	12.7*1
	RQ1E075XN	TCR		30	7.5	1.5	12	17	17	24	19	27	—	—	—	—	—	—	6.8*1
	RQ7G080BG	TCR		40	8	1.5	12.7	16.5	15.5	24	—	—	—	—	—	—	—	—	5.0
	RQ7L055BG	TCR		60	5.5	1.5	22	29	30	42	—	—	—	—	—	—	—	—	3.9
	QH8KA4	TCR	N+N	30	9	1.5	—	—	12.5	17	13	18	17	24	—	—	—	—	12
	QH8KA3	TCR		30	9.0*2	2.6*2	12.3	16.0	18.2	23.7	—	—	—	—	—	—	—	—	7.9
	QS8K13	TCR		30	6	1.5	20	28	25	35	28	39	—	—	—	—	—	—	5.5*1
	QH8KA2	TCR		30	4.5	1.5	25	35	40	56	—	—	—	—	—	—	—	—	4.7
	QH8KA1	TCR		30	4.5*2	2.4*2	56	73	86	112	—	—	—	—	—	—	—	—	1.5
	QS8K11	TCR		30	3.5	1.5	35	50	45	65	50	70	—	—	—	—	—	—	3.3*1
	QH8KB6	TCR		40	8	1.5	13.7	17.7	16.4	27	—	—	—	—	—	—	—	—	5.0
	QH8KB5	TCR		40	7.5*2	1.5	34	44	44	74	—	—	—	—	—	—	—	—	1.8
	QS8K21	TR		45	4	1.5	38	53	48	67	53	75	—	—	—	—	—	—	5.4*1
	QH8KC6	TCR		60	5.5	1.5	23	30	31	44	—	—	—	—	—	—	—	—	3.9
	QH8KC5	TCR		60	3	1.5	70	90	100	140	—	—	—	—	—	—	—	—	1.7
	New QH8KE6	TCR		100	4	1.5	43	56	55	82	—	—	—	—	—	—	—	—	3.3
	New QH8KE5	TCR		100	2	1.5	155	202	210	315	—	—	—	—	—	—	—	—	1.6
	QH8K51	TR		100	2	1.5	240	325	250	340	260	355	—	—	—	—	—	—	4.7*1
	RQ1A070AP	TR	P	–12	–7	1.5	—	—	10	14	—	—	13	19	18	27	24	48	80
	RQ1A060ZP	TR		–12	–6	1.5	—	—	16	23	—	—	22	31	28	42	39	78	34
	RQ7E100AT	TCR		–30	–10	1.5	8.7	11.2	11.9	14.8	—	—	—	—	—	—	—	—	26
	RQ1E070RP	TR		–30	–7	1.5	12	17	17	24	19	27	—	—	—	—	—	—	26*1
	RQ7E055AT	TCR		–30	–5.5	1.5	19.3	24.5	28.2	36.1	—	—	—	—	—	—	—	—	9.4
	RQ1E050RP	TR		–30	–5	1.5	22	31	32	45	36	50	—	—	—	—	—	—	13*1
	RQ7G080AT	TCR		–40	–8	1.5	14.7	18.2	18.1	22.6	—	—	—	—	—	—	—	—	18
	RQ7L050AT	TCR		–60	–5	1.5	31	39	35	44	—	—	—	—	—	—	—	—	18
	New RQ7P035AT	TCR		–100	–3.5	1.5	85	111	91	118	—	—	—	—	—	—	—	—	21
	QS8J13	TR	P+P	–12	–5.5	1.5	—	—	15	22	—	—	19	28	24	38	29	58	60
	QS8J2	TR		–12	–4	1.5	—	—	26	36	—	—	36	50	46	69	66	132	20
	QH8JA1	TCR		–20	–5	1.5	—	—	28	38	—	—	35	48	49	77	—	—	10.2
	QS8J5	TR		–30	–5	1.5	28	39	40	56	45	63	—	—	—	—	—	—	10*1
	QS8J4	TR		–30	–4	1.5	40	56	55	77	60	84	—	—	—	—	—	—	8.4*1
	QH8JB5	TCR		–40	–5	1.5	33	41	41	51	—	—	—	—	—	—	—	—	9.0
	QH8JC5	TCR		–60	–3.5	1.5	71	91	79	101	—	—	—	—	—	—	—	—	8.5
	New QH8JE5	TCR		–100	–2	1.5	210	270	220	290	—	—	—	—	—	—	—	—	10.2
	QH8MA4	TCR	N+P	30	9*2	2.6*2	12.3	16	18.2	23.7	—	—	—	—	—	—	—	—	7.9
				–30	–8*2	2.6*2	22	28.6	31	40.3	—	—	—	—	—	—	—	—	9.8
	QH8MA3	TCR		30	7*2	2.5*2	22	29	35	46	—	—	—	—	—	—	—	—	3.7
				–30	–5.5*2	2.5*2	37	48	55	72	—	—	—	—	—	—	—	—	5.2
	QH8MA2	TCR		30	4.5	1.5	25	35	40	56	—	—	—	—	—	—	—	—	4.7
				–30	–3	1.5	55	80	80	115	—	—	—	—	—	—	—	—	4.3
	QH8MB5	TCR		40	4.5	1.5	34	44	44	74	—	—	—	—	—	—	—	—	1.8
				–40	–5	1.5	33	41	41	51	—	—	—	—	—	—	—	—	9.0
	QH8MC5	TCR		60	3	1.5	70	90	100	140	—	—	—	—	—	—	—	—	1.7
				–60	–3.5	1.5	71	91	79	101	—	—	—	—	—	—	—	—	8.5
	QS8M31	TR		60	3	1.5	80	112	93	130	98	137	—	—	—	—	—	—	4*1
				–60	–2	1.5	150	210	180	252	190	266	—	—	—	—	—	—	7.2*1
	New QH8ME5	TCR		100	2	1.5	147	190	190	290	—	—	—	—	—	—	—	—	1.6
				–100	–2	1.5	210	270	220	290	—	—	—	—	—	—	—	—	10.2
	QS8M51	TR		100	2	1.5	240	325	250	340	260	355	—	—	—	—	—	—	4.7*1
				–100	–1.5	1.5	350	470	380	510	400	540	—	—	—	—	—	—	17*1

注1：(　)内表示ROHM封装。
注2：*1 V_{GS}=5V　*2 P_W≤1s

●肖特基势垒二极管复合型功率MOSFET系列

肖特基势垒二极管复合型功率MOSFET系列

Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_a=25°C)	$R_{DS(on)}$ (mΩ)										Qg (nC) (V_{GS}=4.5V)
	Part No.	Packing code					V_{GS}=10V		V_{GS}=4.5V		V_{GS}=4.0V		V_{GS}=2.5V		V_{GS}=1.5V		
							Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	
SOT-353T (TUMT5) 2021 size 	US5U1	TR	N+SBD (0.5A)	30	1.5	1	—	—	170	240	180	250	240	340	—	—	1.6
	US5U2	TR		30	1.4	1	170	240	250	350	270	380	—	—	—	—	1.4*1
	US5U30	TR	P+SBD (0.5A)	–20	–1	1	—	—	280	390	310	430	570	800	—	—	2.1
	US5U35	TR	P+SBD (0.1A)	–45	–0.7	1	600	800	900	1,300	1,000	1,400	—	—	—	—	1.7*1
SOT-25T (TSMT5) 2928 size 	QS5U36	TR	N+SBD (0.7A)	20	2.5	1.25	—	—	58	81	—	—	74	104	120	240	3.5
	QS5U34	TR	N+SBD (0.5A)	20	1.5	1.25	—	—	130	180	—	—	170	240	220*6	310*6	1.8
	QS5U13*2	TR	N+SBD (0.5A)	30	2	1.25	—	—	71	100	76	107	110	154	—	—	2.8
	QS5U16*2	TR		30	2	1.25	—	—	71	100	76	107	110	154	—	—	2.8
	QS5U12*3	TR	N+SBD (1A)	30	2	1.25	—	—	71	100	76	107	110	154	—	—	2.8
	QS5U17*3	TR		30	2	1.25	—	—	71	100	76	107	110	154	—	—	2.8
	QS5U28	TR	P+SBD (1A)	–20	–2	1.25	—	—	90	125	97	135	175	245	—	—	4.8
	QS5U23*4	TR	P+SBD (0.5A)	–20	–1.5	1.25	—	—	160	200	180	240	260	340	—	—	4.2
	QS5U26*4	TR		–20	–1.5	1.25	—	—	160	200	180	240	260	340	—	—	4.2
	QS5U21*5	TR	P+SBD (1A)	–20	–1.5	1.25	—	—	160	200	180	240	260	340	—	—	4.2
	QS5U27*5	TR		–20	–1.5	1.25	—	—	160	200	180	240	260	340	—	—	4.2
	QS5U33	TR	P+SBD (1A)	–30	–2	1.25	95	135	145	205	160	225	—	—	—	—	3.4*1
SOT-457T (TSMT6) 2928 size 	QS6U22	TR	P+SBD (0.7A)	–20	–1.5	1.25	—	—	155	215	170	235	310	430	—	—	3
	QS6U24	TR		–30	–1	1.25	300	400	500	700	600	800	—	—	—	—	1.7*1

注1：(　)内表示ROHM封装。
注2：*1 V_{GS}=5V　*2, *3, *4, *5 上下品名的特性相同，但内部电路不同。　*6 V_{GS}=1.8V

功率MOSFET

功率MOSFET系列

Package	Application	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_a=25°C)	$R_{DS(on)}$ (mΩ)														Qg (nC) (V_{GS}=4.5V)
		Part No.	Packing code					V_{GS}=10V		V_{GS}=6V		V_{GS}=4.5V		V_{GS}=4.0V		V_{GS}=2.5V		V_{GS}=1.8V		V_{GS}=1.5V		
								Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	
 TO-243 SOT-89 (MPT3) 4540 size	DC-DC Converter Motor Drive	**RHP030N03**	T100	N	30	3	2	90	120	–	–	–	–	160	210	–	–	–	–	–	–	6.5*1
		RHP020N06	T100		60	2	2	150	200	–	–	200	280	240	340	–	–	–	–	–	–	7*1
		RJP020N06	T100		60	2	2	–	–	–	–	165	240	170	250	210	300	–	–	–	–	5*2
 DFN1616-7T (HEML1616L7) 1616 size	Load Switch Switching	**RW4E075AJ**	TCL1	N	30	7.5	1.5	–	–	–	–	18.5	26	–	–	26.6	38	–	–	–	–	6.3
		RW4E065GN	TCL1		30	6.5	1.5	18.2	22.5	–	–	25.1	31.6	–	–	–	–	–	–	–	–	2.1
		RW4E045AJ	TCL1		30	4.5	1.5	–	–	–	–	28	40	–	–	41	58	–	–	–	–	4
		RW4E045AT	TCL1	P	–30	–4.5	1.5	34	48	–	–	50	70	–	–	–	–	–	–	–	–	5.3
		RW4C045BC	TCL1		–20	–4.5	1.5	–	–	–	–	39	56	–	–	52	74	73	117	–	–	6.5
 DFN2020-8S (HUML2020L8) Single 2020 size	DC-DC Converter Motor Drive	**RF4E110GN**	TR	N	30	11	2	8.7	11.3	–	–	11.7	16.5	–	–	–	–	–	–	–	–	3.5
		RF4E080GN	TR		30	8	2	13.5	17.6	–	–	17.6	31.2	–	–	–	–	–	–	–	–	2.8
		RF4E070GN	TR		30	7	2	16.4	21.4	–	–	23	33	–	–	–	–	–	–	–	–	2.2
		RF4G100BG	TCR		40	10	2	10.9	14.2	–	–	13.7	23.0	–	–	–	–	–	–	–	–	5.0
		RF4L070BG	TCR		60	7	2	21	27	–	–	29	40	–	–	–	–	–	–	–	–	3.9
	Load Switch Switching	**RF4E110BN**	TR		30	11	2	8.5	11.1	–	–	11.8	15.4	–	–	–	–	–	–	–	–	12
		RF4E100AJ	TCR		30	10	2	–	–	–	–	9.4	12.4	–	–	13.3	17.9	–	–	–	–	13
		RF4E080BN	TR		30	8	2	13.5	17.6	–	–	18.9	24.6	–	–	–	–	–	–	–	–	7.2
		RF4E070BN	TR		30	7	2	22	28.6	–	–	30.8	40	–	–	–	–	–	–	–	–	4.6
		RF4E060AJ	TCR		30	6	2	–	–	–	–	28	37	–	–	41	55	–	–	–	–	4
		RF4P060BG	TCR		100	6	2	41	53	–	–	52	78	–	–	–	–	–	–	–	–	3.3
		RF4C050AP	TR	P	–20	–10	2	–	–	–	–	18	26	–	–	22	31	27	45	32	65	55
		RF4C100BC	TCR		–20	–10	2	–	–	–	–	12	15.6	–	–	15.4	20	23.5	37.6	–	–	23.5
		RF4E075AT	TCR		–30	–7.5	2	16.7	21.7	–	–	24.4	31.7	–	–	–	–	–	–	–	–	11
		RF4G060AT	TCR		–40	–6	2	32	40	–	–	40	51	–	–	–	–	–	–	–	–	8.5
		RF4L040AT	TCR		–60	–4	2	70	89	–	–	78	100	–	–	–	–	–	–	–	–	8.5
		RF4P025AT	TCR		–100	–2.5	2	200	260	–	–	220	280	–	–	–	–	–	–	–	–	10.2
 DFN2020-8D (HUML2020L8) Dual 2020 size	Load Switch Switching	**UT6K3**	TCR	N+N	30	5.5	2	–	–	–	–	30	42	–	–	45	63	–	–	–	–	4
		UT6KB5	TCR		40	5	2	37	48	–	–	48	80	–	–	–	–	–	–	–	–	1.8
		UT6KC5	TCR		60	3.5	2	73	95	–	–	104	145	–	–	–	–	–	–	–	–	1.7
		UT6KE5	TCR		100	2	2	159	207	–	–	230	345	–	–	–	–	–	–	–	–	1.6
		UT6JA3	TCR	P+P	–20	–5	2	–	–	–	–	42	59	–	–	54	76	76	118	–	–	6.5
		UT6J3	TCR		–20	–3	2	–	–	–	–	60	85	–	–	65	95	95	155	130	260	8.5
		UT6JA2	TCR		–30	–4	2	55	70	–	–	80	103	–	–	–	–	–	–	–	–	3.4
		UT6JB5	TCR		–40	–3.5	2	95	122	–	–	121	155	–	–	–	–	–	–	–	–	3.3
		UT6JC5	TCR		–60	–2.5	2	220	280	–	–	250	320	–	–	–	–	–	–	–	–	3.2
		UT6JE5	TCR		–100	–1	2	650	840	–	–	690	900	–	–	–	–	–	–	–	–	3.7
	Motor	**UT6MA3**	TCR	N+P	20	5.5	2	–	–	–	–	30	42	–	–	45	63	–	–	–	–	4
					–20	–5	2	–	–	–	–	42	59	–	–	54	76	–	–	–	–	6.5
		UT6MA2	TCR		30	4	2	37	46	–	–	59	80	–	–	–	–	–	–	–	–	2.2
					–30	–4	2	55	70	–	–	80	103	–	–	–	–	–	–	–	–	3.3
		UT6MB5	TCR		40	5	2	37	48	–	–	48	80	–	–	–	–	–	–	–	–	1.8
					–40	–3.5	2	95	122	–	–	121	155	–	–	–	–	–	–	–	–	3.3
		UT6MC5	TCR		60	3.5	2	73	95	–	–	104	145	–	–	–	–	–	–	–	–	1.7
					–60	–2.5	2	220	280	–	–	250	320	–	–	–	–	–	–	–	–	3.2
		UT6ME5	TCR		100	2	2	159	207	–	–	230	345	–	–	–	–	–	–	–	–	1.6
					–100	–1	2	650	840	–	–	690	900	–	–	–	–	–	–	–	–	3.7

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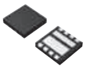
注2：*1 V_{GS}=10V　*2 V_{GS}=4V

功率MOSFET系列

Package	Application	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A) (T_c=25℃)	P_D (W) (T_c=25℃)	$R_{DS (on)}$ (mΩ)														Qg (nC) (V_{GS}=4.5V)
		Part No.	Packing code					V_{GS}=10V		V_{GS}=6V		V_{GS}=4.5V		V_{GS}=4.0V		V_{GS}=2.5V		V_{GS}=1.8V		V_{GS}=1.5V		
								Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	
 (HSMT8) 3333 size Single	DC-DC Converter Switching	New **RH6E040BG**	TB1	N	30	125*2,*3	78	2.1	2.9	—	—	3.2	4.6	—	—	—	—	—	—	—	—	14
		RQ3E180GN	TB1		30	39	20	3.3	4.3	—	—	4.3	6.1	—	—	—	—	—	—	—	—	11
		RQ3E150GN	TB		30	39	17	4.7	6.1	—	—	6.2	8.8	—	—	—	—	—	—	—	—	7.4
		RQ3E120GN	TB		30	27	15	6.7	8.8	—	—	9.1	13.8	—	—	—	—	—	—	—	—	4.8
		RQ3E100GN	TB		30	21	15	8.9	11.7	—	—	12	20	—	—	—	—	—	—	—	—	3.9
		RQ3E080GN	TB		30	18	14	12.9	16.7	—	—	17.5	31.2	—	—	—	—	—	—	—	—	2.8
		New **RH6G040BG**	TB1		40	95*2,*3	59	2.8	3.6	—	—	4.7	6.5	—	—	—	—	—	—	—	—	12.5
		New **RH6L040BG**	TB1		60	65*2,*3	59	5.5	7.1	—	—	8	11.2	—	—	—	—	—	—	—	—	9.2
		New **RQ3L070BG**	TB1		60	20	15	19.8	24.7	—	—	27.6	37.3	—	—	—	—	—	—	—	—	3.9
		New **RQ3L060BG**	TB1		60	15.5	14	29	38	—	—	42	58	—	—	—	—	—	—	—	—	2.9
		New **RH6P040BH**	TB1		100	40*3	59	12	15.6	15.6	23.3	—	—	—	—	—	—	—	—	—	—	10.9*5
		RQ3P300BH	TB1		100	39*3	32	11.9	15.5	15.6	24.0	—	—	—	—	—	—	—	—	—	—	18*2
		New **RH6R025BH**	TB1		150	25*3	59	46	60	49	73	—	—	—	—	—	—	—	—	—	—	11*5
	Load Switch Switching	**RQ3E180BN**	TB1		30	39	20	2.8	3.9	—	—	3.7	5.2	—	—	—	—	—	—	—	—	37
		RQ3E150BN	TB		30	39	17	3.8	5.3	—	—	5.3	7.4	—	—	—	—	—	—	—	—	23
		RQ3E130BN	TB		30	39	16	4.4	6	—	—	6.7	9.4	—	—	—	—	—	—	—	—	16
		RQ3E180AJ	TB1		30	30	30	—	—	—	—	3.5	4.5	—	—	4.5	5.8	—	—	—	—	39
		RQ3E110AJ	TB		30	24	15	—	—	—	—	8.8	11.7	—	—	12.6	16.5	—	—	—	—	13.5
		RQ3E120BN	TB		30	21	16	6.6	9.3	—	—	8.6	11.9	—	—	—	—	—	—	—	—	14
		RQ3E100BN	TB1		30	21	15	7.7	10.4	—	—	11	15.3	—	—	—	—	—	—	—	—	10.5
		RQ3E160AD	TB1		30	16*1	2*1	3.5	4.5	—	—	5	7	—	—	—	—	—	—	—	—	25
		RQ3E080BN	TB1		30	15	14	11	15.2	—	—	16	22	—	—	—	—	—	—	—	—	7.2
		RQ3E070BN	TB1		30	15	13	20	27	—	—	29	39	—	—	—	—	—	—	—	—	4.6
		RQ3C150BC	TB	P	−20	−30	20	—	—	—	—	4.8	6.7	—	—	6.1	8.5	8.8	14	—	—	60
		RQ3E120AT	TB		−30	−39	20	6.1	8	—	—	8.7	11.3	—	—	—	—	—	—	—	—	33
		RQ3E100AT	TB		−30	−31	17	9	11.4	—	—	13.1	16.7	—	—	—	—	—	—	—	—	21
		RQ3E075AT	TB		−30	−18	15	17.4	23	—	—	26	33	—	—	—	—	—	—	—	—	10.4
		RQ3G110AT	TB		−40	−35*1	20*1	9.8	12.4	—	—	12.3	15.7	—	—	—	—	—	—	—	—	20
		RQ3L070AT	TB		−60	−25*1	20*1	22	28	—	—	25	32	—	—	—	—	—	—	—	—	21
		RQ3P045AT	TB1		−100	−14.5	20	67	86	—	—	71	92	—	—	—	—	—	—	—	—	25
 (HSMT8) 3333 size Dual	Motor	New **HT8KB6**	TB1	N+N	40	15	14	13.3	17.2	—	—	19.3	27	—	—	—	—	—	—	—	—	5
		New **HT8KB5**	TB1		40	12	13	36	47	—	—	58	81	—	—	—	—	—	—	—	—	1.8
		New **HT8KC6**	TB1		60	15	14	23	29	—	—	31	43	—	—	—	—	—	—	—	—	3.9
		New **HT8KC5**	TB1		60	10	13	69	90	—	—	99	139	—	—	—	—	—	—	—	—	1.7
		New **HT8KE6**	TB1		100	13	14	44	57	—	—	56	83	—	—	—	—	—	—	—	—	3.3
		New **HT8KE5**	TB1		100	7	13	148	193	—	—	200	300	—	—	—	—	—	—	—	—	1.7
 (HSML3030L10) 3030 size	DC-DC Converter	**HS8K1**	TB	N+N	30	10*1	2*1	11.2	14.6	—	—	14.7	20	—	—	—	—	—	—	—	—	2.7
					30	11*1	2*1	9.1	11.8	—	—	11.9	16.5	—	—	—	—	—	—	—	—	3.3
		HS8K11	TB		30	7*1	2*1	12.8	17.9	—	—	20.8	29.1	—	—	—	—	—	—	—	—	5.7
					30	11*1	2*1	10.2	13.3	—	—	11.8	15.4	—	—	—	—	—	—	—	—	9
 DFN3333-9DC (HSML3333L9) 3333 size	Motor	**HS8MA2**	TCR1	N+P	30	7.0*4	4*4	25	35	—	—	40	56	—	—	—	—	—	—	—	—	4.7
					−30	−5.5*4	4*4	55	80	—	—	80	115	—	—	—	—	—	—	—	—	4.3

注1：(　)内表示ROHM封装。
注2：*1 T_a=25° C　*2 限制硅　*3 V_{GS}=10V　*4 P_W≦1s　*5 V_{GS}=6V

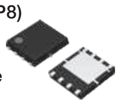
功率MOSFET

功率MOSFET系列

Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_a=25°C)	$R_{DS\ (on)}$ (mΩ)						Qg (nC) (V_{GS}=5V)
	Part No.	Packing code					V_{GS}=10V		V_{GS}=4.5V		V_{GS}=4.0V		
							Typ	Max	Typ	Max	Typ	Max	
SOP8 (SOP8) 5060 size 	**RS3E135BN**	TB	N	30	13.5	2	5.7	7.4	8.5	10.9	–	–	16.6*1
	RXH125N03	TB		30	12.5	2	7.5	12	9.5	13.3	10	14	12.7
	RXH100N03	TB1		30	10	2	9.5	13	12	17	13	18	11
	RS3E095BN	TB		30	9.5	2	11.9	14.6	17.5	21.9	–	–	8.3*1
	RXH090N03	TB1		30	9	2	12	17	17	24	19	27	6.8
	RXH070N03	TB1		30	7	2	20	28	25	35	28	39	5.8
	RSH070N05	TB1		45	7	2	18	25	23	32	25	35	12
	RSH065N06	TB1		60	6.5	2	24	37	28	44	31	48	11
	RS3E180AT	TB1	P	–30	–18	2	4.1	5.4	5	6.1	–	–	80*1
	RRH140P03	TB		–30	–14	2	5	7	6.7	9.4	7.3	10.2	80
	RS3E130AT	TB1		–30	–13	2	6.5	8.5	8.6	11.2	–	–	83*2
	RRH100P03	TB1		–30	–10	2	9	12.6	12.5	17.5	14	19.6	39
	RRH090P03	TB1		–30	–9	2	11	15.4	15	21	17	24	30
	RS3E075AT	TB1		–30	–7.5	2	18	23.5	24	31	–	–	12.8*1
	RRH050P03	TB1		–30	–5	2	36	50	52	72	58	80	9.2
	RRH040P03	TB1		–30	–4	2	55	75	85	115	95	125	5.2
	RS3G160AT	TB1		–40	–16	2	5	6.2	6.1	7.6	–	–	55*1
	RSH070P05	TB1		–45	–7	2	19	27	25	35	28	39	34
	RS3L110AT	TB1		–60	–11	2	10.1	12.8	11.2	14.3	–	–	55*1
	RS3P070AT	TB1		–100	–7	2	28	36	30	38	–	–	57*1
	SH8KA7	TB	N+N	30	15*3	4.6*3	7.1	9.1	8.3	10.7	–	–	41*1
	SH8KA4	TB		30	9*3	3*3	16.5	21.4	22.2	28.9	–	–	7.9*1
	SH8KA2	TB		30	8*3	2.8*3	23	28	34	43	–	–	4.1*1
	SH8K12	TB		30	6*3	2	30	42	40	56	45	63	4
	SH8KA1	TB		30	4.5*3	2.7*3	54	69	84	109	–	–	1.6*1
	SH8K11	TB		30	3.5	2	70	98	90	126	100	140	1.9
	SH8KB6	TB1		40	8.5	2	14.9	19.4	18.2	26	–	–	5.0*1
	SH8KB7	TB1		40	13.5	2	6.5	8.4	7.5	10.5	–	–	13*1
	SH8KC6	TB1		60	6.5	2	25	32	33	46	–	–	3.9*1
	SH8KC7	TB1		60	10.5	2	9.5	12.4	12.3	17.2	–	–	10.8*1
	SH8KE7	TB1		100	8	2	16.1	20.9	19.7	29.6	–	–	10.5*1
	SH8KE6	TB1		100	4.5	2	45	58	56	84	–	–	3.3*1
	SH8J66	TB1	P+P	–30	–9	2	13.5	18.5	17.5	23.6	19	24.7	35
	SH8J65	TB1		–30	–7	2	21.5	29	29	39	31	40.8	18
	SH8J62	TB1		–30	–4.5	2	40	56	55	77	60	84	8
	SH8JB5	TB1		–40	–8.5	2	12.4	15.3	15	18.7	–	–	25*1
	SH8JC5	TB1		–60	–7.5	2	25	32	28	35	–	–	23*1
	SH8J31	TB		–60	–4.5	2	50	70	55	80	60	85	40*2
	SH8JE5	TB1		–100	–4.5	2	70	91	74	96	–	–	25*1
	SH8MA4	TB1	N+P	30	9*3	3.0*3	16.5	21.4	22.2	32.5	–	–	7.9*1
				–30	–8.5*3		23	29.6	32	41.3	–	–	9.8*1
	SH8MA3	TB1		30	7*3	2.8*3	23	28	42	57	–	–	3.7*1
				–30	–6*3		40	50	60	73	–	–	5.2*1
	SH8MA2	TB		30	4.5*3	2.7*3	57	80	88	125	–	–	1.5*1
				–30	–4.5*3		63	82	89	115	–	–	3.4*1
	SH8MB5	TB1		40	8.5	2	14.9	19.4	18.2	26	–	–	5*1
				–40	–8.5		13.9	16.8	16.5	21	–	–	25*1
	New **SH8MB4**	TB1		40	4.5	2	42	55	65	91	–	–	1.8*1
				–40	–5.6		36	46	44	56	–	–	9.0*1
	New **SH8MC4**	TB1		60	3.5	2	73	95	106	148	–	–	1.7*1
				–60	–4		75	96	84	107	–	–	8.5*1
	SH8M24	TB1		45	4.5	2	33	46	41	57	46	64	6.8
				–45	–3.5		45	63	60	84	66	92	13
	SH8MC5	TB1		60	6.5	2	25	32	33	46	–	–	3.9*1
				–60	–7		27	33	29	37	–	–	23*1
	SH8M31	TB		60	4.5	2	46	65	52	73	55	77	7*1
				–60	–4.5		50	70	55	80	60	85	20*1
	SH8M41	TB1		80	3.4	2	90	130	110	150	120	160	6.6
				–80	–2.6		165	240	220	300	230	310	8.2
	SH8ME5	TB1		100	4.5	2	45	58	56	84	–	–	3.3*1
				–100	–4.5		70	91	74	96	–	–	25*1

注1：( )内表示ROHM封装。
注2：*1 V_{GS}=4.5V　*2 V_{GS}=10V　*3 P_W≤1s

功率MOSFET系列

Package	Application	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A) (T_C=25°C)	P_D (W) (T_C=25°C)	$R_{DS(on)}$ (mΩ)						Qg (nC) (V_{GS}=4.5V)
		Part No.	Packing code					V_{GS}=10V		V_{GS}=6V		V_{GS}=4.5V		
								Typ	Max	Typ	Max	Typ	Max	
HSOP8 (HSOP8) 5060 size Single 	Load Switch	RS1E350BN	TB1	N	30	80	35	1.2	1.7	–	–	1.8	2.5	95
		RS1E281BN	TB1		30	80	30	1.7	2.3	–	–	2.3	3.2	50
		RS1E200BN	TB1		30	68	25	2.8	3.9	–	–	3.8	5.3	29
		RS1E180BN	TB		30	60	25	3.5	4.9	–	–	4.9	6.9	23
		RS1E240BN	TB		30	40	30	2.3	3.2	–	–	3.3	4.6	35
		RS1E260AT	TB1	P	–30	–80	40	2.5	3.1	–	–	3.5	4.3	87
		RS1E220AT	TB1		–30	–76	34	3.3	4.1	–	–	4.6	5.8	65
		RS1G201AT	TB1		–40	–78	40	4.2	5.2	–	–	5.2	6.5	62
		RS1L151AT	TB1		–60	–56	40	8.9	11.3	–	–	9.9	12.6	59
		New RS1N110AT	TB1		–80	–43	40	16.3	21	17.4	22	–	–	83^{*2}
		RS1P090AT	TB1		–100	–33	40	26	34	–	–	28	36	62
	DC-DC Converter Switching	RS1E350GN	TB	N	30	80	39	1.48	1.76	–	–	1.92	2.40	32.7
		RS1E321GN	TB1		30	80	34	1.4	1.9	–	–	1.8	2.9	19.6
		RS1E301GN	TB1		30	80	33	1.7	2.2	–	–	2.2	3.3	18.5
		RS1E280GN	TB		30	80	31	2.0	2.6	–	–	2.6	3.8	17.1
		RS1E240GN	TB		30	72	27	2.6	3.3	–	–	3.3	5.2	11.2
		RS1E200GN	TB		30	57	25	3.6	4.6	–	–	4.7	7.5	7.8
		RS1E170GN	TB		30	40	23	5.1	6.7	–	–	6.7	10.3	5.9
		RS1E150GN	TB		30	40	22	6.7	8.8	–	–	8.8	13.3	4.8
		RS1E130GN	TB		30	35	22	8.9	11.7	–	–	11.7	17.7	3.9
		New RS6E120BG	TB1		30	270^{*1,*2}	138	0.79	1.1	–	–	1.2	1.76	35
		New RS6E122BG	TB1		30	155^{*1,*2}	89	1.51	2.16	–	–	2.27	3.37	23
		New RS6G120CH	TB1		40	225^{*1,*2}	166	0.78	0.91	1.25	1.76	–	–	44^{*2}
		New RS6G120BG	TB1		40	210^{*1,*2}	104	1.03	1.34	–	–	1.74	2.43	34
		New RS6G100BG	TB1		40	100^{*2}	59	2.6	3.4	–	–	4.6	6.5	11.8
		New RS6L120BG	TB1		60	150^{*1,*2}	104	2.1	2.7	–	–	3	4.2	25
		New RS6L090BG	TB1		60	90^{*2}	73	3.6	4.7	–	–	5.3	7.4	14.0
		New RS6N120BH	TB1		80	135^{*1,*2}	104	2.8	3.3	3.5	4.9	–	–	33^{*3}
		New RS6P100BH	TB1		100	100^{*2}	104	4.5	5.9	5.8	8.7	–	–	29^{*3}
		New RS6P060BH	TB1		100	60^{*2}	73	8.2	10.6	10.7	16	–	–	16.2^{*3}
		New RS1P600BH	TB1		100	60	35	6.7	8.8	8.6	12.9	–	–	21^{*3}
		New RS6R060BH	TB1		150	60^{*2}	104	16.7	21.8	17.9	26.8	–	–	30^{*3}
		New RS6R035BH	TB1		150	35^{*2}	73	32	41	34	50	–	–	16.2^{*3}
DFN5060-8S (DFN5060T8LSHAAE) 5060 size 	DC-DC Converter Motor	New RS7E200BG	TB1	N	30	390^{*1,*2}	180	0.53	0.7	–	–	0.75	1.06	60
		New RS7N200BH	TB1		80	230^{*1,*2}	180	1.7	2	2.1	2.9	–	–	45^{*3}

注1：(　)内表示ROHM封装。
注2：*1 限制硅　*2 V_{GS}=10V　*3 V_{GS}=6V

功率MOSFET系列

Package	Application	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A) (T_C=25°C)	P_D (W) (T_C=25°C)	$R_{DS(on)}$ (mΩ)				Qg (nC) (V_{GS}=4.5V)
		Part No.	Packing code					V_{GS}=10V		V_{GS}=4.5V		
								Typ	Max	Typ	Max	
HSOP8 (HSOP8) 5060 size Asymmetry Dual 	Switching	HP8K24	TB	N+N	30	80	31	2.3	3	3.2	4.2	17.2
					30	27	22	6.7	8.8	9.1	13.3	4.8
		HP8K22	TB		30	57	25	3.6	4.6	4.7	7.5	7.8
					30	27	22	6.7	8.8	9.1	13.3	4.8
HSOP8 (HSOP8) 5060 size Symmetry Dual 	Motor	New HP8KB7	TB1	N+N	40	24	26	6.2	8	8	11	13
		New HP8KB6	TB1		40	24	21	12.1	15.7	17.8	25	5
		New HP8KC7	TB1		60	24	26	8.8	11.5	11.2	15.7	10.8
		New HP8KC6	TB1		60	23	21	21	27	29	40	3.9
		New HP8KE7	TB1		100	24	26	15.1	19.6	18.6	27.8	10.5
		New HP8KE6	TB1		100	17	21	41	54	53	73	3.7
		New HP8JE5	TB1	P+P	100	12.5	21	98	127	106	138	18.5
		HP8MA2	TB1	N+P	30	18^{*1,*2}	7^{*1,*2}	7.5	9.6	11.7	16.5	10.5
					–30	–15^{*1,*2}	7^{*1,*2}	13.2	17.9	21	29	12.8
		New HP8MB5	TB1		40	16.5	20	35	46	57	80	1.8
					–40	–18.0	20	34	44	42	55	9
		New HP8MC5	TB1		60	12	20	69	90	99	139	1.7
					–60	–12	20	74	96	83	107	8.5
		HP8M31	TB1		60	8.5^{*1,*2}	7^{*1,*2}	46	65	52	73	6.2
					–60	–8.5^{*1,*2}	7^{*1,*2}	50	70	55	80	15.7
		New HP8ME5	TB1		100	8.5	20	148	193	200	300	1.7
					–100	–8.0	20	210	273	233	303	10.2
		HP8M51	TB1		100	4.5^{*1,*2}	7^{*1,*2}	120	170	130	180	8.5
					–100	–4.5^{*1,*2}	7^{*1,*2}	210	290	230	320	12.5
HSOP8 (HSOP8) 5060 size Drain Common Dual 	Load Switch	HP8KA1	TB	N+N	30	14	3	3.5	5	5	7	24

注1：(　)内表示ROHM封装。
注2：*1 T_a=25° C　*2 P_W≤1s

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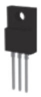
Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A) (T_C=25°C)	P_D (W) (T_C=25°C)	$R_{DS (on)}$ (mΩ)								Qg (nC) (V_{GS}=10V)
	Part No.	Packing code					V_{GS}=10V		V_{GS}=6.0V		V_{GS}=4.5V		V_{GS}=4.0V		
							Typ	Max	Typ	Max	Typ	Max	Typ	Max	
TO-252 DPAK (TO-252) 	RD3G07BBG	TL1	N	40	150*1,*2	89	1.75	2.3	—	—	2.6	3.7	—	—	28*5
	RD3G03BBG	TL1		40	65*1,*2	50	5	6.5	—	—	7.6	10.6	—	—	9.3*5
	RD3H200SN	TL1		45	20	20	20	28	—	—	25	35	28	40	12*4
	RD3L07BBG	TL1		60	115*1,*2	102	3	3.9	—	—	4.1	5.7	—	—	23*5
	RD3L03BBG	TL1		60	50*1,*2	50	8.7	11.3	—	—	12.1	16.9	—	—	7.1*5
	RD3L220SN	TL1		60	22	20	18	26	—	—	21	30	23	33	30
	RD3L150SN	TL1		60	15	20	28	40	—	—	33	47	36	51	18
	RD3L080SN	TL1		60	8	15	57	80	—	—	70	98	78	109	9.4
	RD3L050SN	TL1		60	5	15	78	109	—	—	94	131	100	140	8
	RD3P07BBH	TL1		100	80*1,*2	89	5.9	7.7	7.5	11.2	—	—	—	—	25*3
	RD3P03BBH	TL1		100	35*2	50	18	23	23	34	—	—	—	—	8.2*3
	RD3P200SN	TL1		100	20	20	33	46	—	—	—	—	36	50	55
	RD3P175SN	TL1		100	17.5	20	75	105	—	—	80	112	85	119	24
	RD3P100SN	TL1		100	10	20	95	133	—	—	100	140	105	147	18
	RD3P050SN	TL1		100	5	15	135	190	—	—	142	200	145	205	14
	RD3R05BBH	TL1		150	50*2	89	22	29	24	35	—	—	—	—	24*3
	RD3R02BBH	TL1		150	20*2	50	62	81	67	100	—	—	—	—	8.1*3
	RD3S100CN	TL1		190	10	85	130	182	—	—	—	—	136	190	52
	RD3S075CN	TL1		190	7.5	52	240	336	—	—	—	—	248	347	30
	RD3T100CN	TL1		200	10	85	140	182	—	—	—	—	—	—	25
	RD3T075CN	TL1		200	7.5	52	250	325	—	—	—	—	—	—	15
	RD3T050CN	TL1		200	5	29	540	760	—	—	—	—	—	—	8.3
	RD3U080CN	TL1		250	8	85	225	300	—	—	—	—	—	—	25
	RD3U060CN	TL1		250	6	52	410	530	—	—	—	—	—	—	15
	RD3U040CN	TL1		250	4	29	930	1,300	—	—	—	—	—	—	8.5
	RD3G07BAT	TL1	P	−40	−70	101	5.7	7.1	—	—	6.9	8.7	—	—	52*5
	RD3G03BAT	TL1		−40	−35	56	15	19.1	—	—	18.5	24	—	—	19.5*5
	RD3G01BAT	TL1		−40	−15	25	31	39	—	—	38	49	—	—	9.5*5
	RD3H160SP	TL1		−45	16	20	35	50	—	—	45	63	50	70	16*4
	RD3H080SP	TL1		−45	−8	15	65	91	—	—	95	133	105	147	9*4
	RD3H045SP	TL1		−45	−4.5	15	110	155	—	—	160	225	185	260	12*4
	RD3L07BAT	TL1		−60	−70	101	10.1	12.7	—	—	11.1	14.1	—	—	54*5
	RD3L03BAT	TL1		−60	−35	56	32	41	—	—	36	46	—	—	18.5*5
	RD3L140SP	TL1		−60	−14	20	60	84	—	—	73	103	77	108	27
	RD3L01BAT	TL1		−60	−10	26	65	84	—	—	73	93	—	—	9.1*5
	RD3P05BAT	TL1		−100	−50*2	101	32	41	35	46	—	—	—	—	68*3
	RD3P02BAT	TL1		−100	−20*2	56	89	116	100	130	—	—	—	—	25*3
	RD3P01BAT	TL1		−100	−10*2	25	181	240	210	270	—	—	—	—	12.3*3
	RD3P130SP	TL1		−100	−13	20	135	200	—	—	150	220	155	230	40
TO-263S D2PAK (LPTS) 	RSJ650N10	TL	N	100	65	100	6.5	9.1	—	—	—	—	7	9.8	260
	RSJ550N10	TL		100	55	100	12	16.8	—	—	—	—	13.5	18.9	143
	RSJ400N10	TL		100	40	50	19	27	—	—	—	—	21	30	90
	RSJ301N10	TL		100	30	50	33	46	—	—	—	—	36	50	60
	RCJ700N20	TL		200	70	297	30.5	42.7	—	—	—	—	—	—	125
	RCJ451N20	TL		200	45	211	42	55	—	—	—	—	—	—	80
	RCJ300N20	TL		200	30	166	60	80	—	—	—	—	—	—	60
	RCJ200N20	TL		200	20	106	100	130	—	—	—	—	—	—	40
	RCJ160N20	TL		200	16	85	135	180	—	—	—	—	—	—	26
	RCJ120N20	TL		200	12	52	250	325	—	—	—	—	—	—	15
	RCJ081N20	TL		200	8	40	550	770	—	—	—	—	—	—	9
	RCJ510N25	TL		250	51	304	48	65	—	—	—	—	—	—	120
	RCJ331N25	TL		250	33	211	77	105	—	—	—	—	—	—	80
	RCJ220N25	TL		250	22	166	105	140	—	—	—	—	—	—	60
	RCJ120N25	TL		250	12	107	180	235	—	—	—	—	—	—	35
	RCJ100N25	TL		250	10	85	245	320	—	—	—	—	—	—	26.5
	RCJ050N25	TL		250	5	30	970	1,360	—	—	—	—	—	—	9
	RSJ250P10	TL	P	−100	−25	50	45	63	—	—	48	67	50	70	60*4
	RSJ151P10	TL		−100	−15	50	85	120	—	—	95	135	100	140	64

注1：(　)内表示ROHM封装。
注2：*1 限制硅　*2 V_{GS}=10V　*3 V_{GS}=6V　*4 V_{GS}=5V　*5 V_{GS}=4.5V

功率MOSFET系列

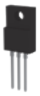
Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A) (T_C=25°C)	P_D (W) (T_C=25°C)	$R_{DS(on)}$ (mΩ)								Qg (nC) (V_{GS}=10V)
	Part No.	Packing code					V_{GS}=10V		V_{GS}=6.0V		V_{GS}=4.5V		V_{GS}=4.0V		
							Typ	Max	Typ	Max	Typ	Max	Typ	Max	
TO-263AB (TO-263AB-3LSHYAD) 	**RJ1P10BBH**	TL1	N	100	170^{*1,*2}	189	2.3	3.0	2.8	4.2	—	—	—	—	89^{*3}
	RJ1P07CBH	TL1		100	120^{*1,*2}	135	3.9	5.1	4.7	7.1	—	—	—	—	48^{*3}
	RJ1P04BBH	TL1		100	80^{*1,*2}	89	6.8	8.8	8.4	12.5	—	—	—	—	25^{*3}
	RJ1R10BBH	TL1		150	105^{*2}	189	6.3	8.2	6.7	10	—	—	—	—	86^{*3}
TO-220AB (TO-220AB) 	**RX3G18BBG**	C16	N	40	270^{*1,*2}	192	1.13	1.47	—	—	1.43	2	—	—	105^{*5}
	RX3G07BBG	C16		40	130^{*1,*2}	89	2.3	3	—	—	3.2	4.4	—	—	28^{*5}
	RX3L18BBG	C16		60	240^{*1,*2}	192	1.41	1.84	—	—	1.73	2.43	—	—	80^{*5}
	RX3L07BBG	C16		60	105^{*1,*2}	89	3.5	4.6	—	—	4.7	6.5	—	—	23^{*5}
	RX3P10BBH	C16		100	170^{*1,*2}	189	2.5	3.3	2.9	4.4	—	—	—	—	89^{*3}
	RX3P07CBH	C16		100	120^{*1,*2}	135	4	5.2	4.8	7.2	—	—	—	—	48^{*3}
	RX3P07BBH	C16		100	80^{*1,*2}	89	6.5	8.4	8	12	—	—	—	—	25^{*3}
	RX3R10BBH	C16		150	105^{*2}	181	6.8	8.8	7.2	10.8	—	—	—	—	86^{*3}
	RX3R05BBH	C16		150	50^{*2}	89	22	29	24	35	—	—	—	—	25^{*3}
	RX3P12BAT	C16	P	–100	–120^{*2}	201	9.4	12.3	10.5	13.6	—	—	—	—	255^{*3}
TO-220FP (TO-220FM) 	**RCX700N20**	—	N	200	70	83	30.5	42.7	—	—	—	—	—	—	125
	RCX450N20	—		200	45	69	42	55	—	—	—	—	—	—	80
	RCX300N20	—		200	30	61	60	80	—	—	—	—	—	—	60
	RCX200N20	—		200	20	48	100	130	—	—	—	—	—	—	40
	RCX160N20	—		200	16	43	135	180	—	—	—	—	—	—	26
	RCX120N20	—		200	12	40	250	325	—	—	—	—	—	—	15
	RCX081N20	—		200	8	40	470	770	—	—	—	—	—	—	9
	RCX511N25	—		250	51	84	48	65	—	—	—	—	—	—	120
	RCX330N25	—		250	33	69	77	105	—	—	—	—	—	—	80
	RCX220N25	—		250	22	61	105	140	—	—	—	—	—	—	60
	RCX120N25	—		250	12	48	180	235	—	—	—	—	—	—	35
	RCX100N25	—		250	10	43	245	320	—	—	—	—	—	—	26.5
	RCX080N25	—		250	8	35	460	600	—	—	—	—	—	—	15
	RCX051N25	—		250	5	30	970	1,360	—	—	—	—	—	—	9

注1：(　)内表示ROHM封装。

注2：*1 限制硅　*2 V_{GS}=10V　*3 V_{GS}=6V　*4 V_{GS}=5V　*5 V_{GS}=4.5V

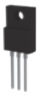
功率MOSFET

低噪声型

Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_C=25°C)	$R_{DS(on)}$ (Ω)		Qg (nC) V_{GS}=10V
	Part No.	Packing code					V_{GS}=10V		
							Typ	Max	
SOP8 (SOP8) 	**R6000ENH**	TB1	N	600	0.5	2.0	7.300	8.800	4.3
	R6002ENH	TB1		600	1.7	2.0	2.800	3.400	6.5
TO-261 SOT-223-3 (SOT-223-3) 	*New* **R6004END4**	TL1	N	600	2.4	9.1	0.9	0.98	15
TO-252 DPAK (TO-252) 	**R6011END3**	TL1	N	600	11	124	0.340	0.390	32
	R6009END3	TL1		600	9	94	0.500	0.535	23
	R6007END3	TL1		600	7	78	0.570	0.620	20
	R6004END3	TL1		600	4	59	0.900	0.980	15
	R6002END3	TL1		600	1.7	26	2.800	3.400	6.5
	R6511END3	TL1		650	11	124	0.360	0.400	32
	R6509END3	TL1		650	9	94	0.530	0.585	24
	R6507END3	TL1		650	7	78	0.605	0.665	20
	R6504END3	TL1		650	4	58	0.955	1.050	15
	R6502END3	TL1		650	1.7	26	3.050	4.000	6.5
TO-263S D2PAK (LPTS) 	**R6024ENJ**	TL	N	600	24	245	0.150	0.165	70
	R6020ENJ	TL		600	20	231	0.170	0.196	60
	R6015ENJ	TL		600	15	184	0.260	0.290	40
	R6011ENJ	TL		600	11	124	0.340	0.390	32
	R6009ENJ	TL		600	9	94	0.500	0.535	23
	R6007ENJ	TL		600	7	78	0.570	0.620	20
	R6004ENJ	TL		600	4	58	0.900	0.980	15
	R6524ENJ	TL		650	24	245	0.160	0.185	70
	R6520ENJ	TL		650	20	231	0.185	0.205	61
	R6515ENJ	TL		650	15	184	0.280	0.315	40
	R6511ENJ	TL		650	11	124	0.360	0.400	32
	R6509ENJ	TL		650	9	94	0.530	0.585	24
	R6507ENJ	TL		650	7	78	0.605	0.665	20
	R6504ENJ	TL		650	4	58	0.955	1.050	15
TO-220FP (TO-220FM) 	**R6030ENX**	C7 G	N	600	30	86	0.115	0.130	85
	R6024ENX	C7 G		600	24	74	0.150	0.165	70
	R6020ENX	C7 G		600	20	68	0.170	0.196	60
	R6015ENX	C7 G		600	15	60	0.260	0.290	40
	R6011ENX	C7 G		600	11	53	0.340	0.390	32
	R6009ENX	C7 G		600	9	48	0.500	0.535	23
	R6007ENX	C7 G		600	7	46	0.570	0.620	20
	R6004ENX	C7 G		600	4	35	0.900	0.980	15
	R6530ENX	C7 G		650	30	86	0.125	0.140	90
	R6524ENX	C7 G		650	24	74	0.160	0.185	70
	R6520ENX	C7 G		650	20	68	0.185	0.205	61
	R6515ENX	C7 G		650	15	60	0.280	0.315	40
	R6511ENX	C7 G		650	11	53	0.360	0.400	32
	R6509ENX	C7 G		650	9	48	0.530	0.585	24
	R6507ENX	C7 G		650	7	46	0.605	0.665	20
	R6504ENX	C7 G		650	4	35	0.955	1.050	15
TO-247AD (TO-247) 	**R6076ENZ4**	C13	N	600	76	735	0.038	0.042	260
	R6047ENZ4	C13		600	47	481	0.066	0.072	145
	R6035ENZ4	C13		600	35	379	0.092	0.102	110
	R6030ENZ4	C13		600	30	305	0.115	0.130	85
	R6024ENZ4	C13		600	24	245	0.150	0.165	70
	R6020ENZ4	C13		600	20	231	0.170	0.196	60
	R6576ENZ4	C13		650	76	735	0.040	0.046	260
	R6547ENZ4	C13		650	47	480	0.070	0.080	150
	R6535ENZ4	C13		650	35	379	0.098	0.115	110
	R6530ENZ4	C13		650	30	305	0.125	0.140	90
	R6524ENZ4	C13		650	24	245	0.160	0.185	70
	R6520ENZ4	C13		650	20	231	0.185	0.205	61
(TO-3PF) 	**R6035ENZ**	C17	N	600	35	120	0.092	0.102	110
	R6030ENZ	C17		600	30	120	0.115	0.130	85
	R6024ENZ	C17		600	24	120	0.150	0.165	70
	R6020ENZ	C17		600	20	120	0.170	0.196	60
	R6015ENZ	C17		600	15	120	0.260	0.290	40
	R6535ENZ	C17		650	35	102	0.098	0.115	110
	R6530ENZ	C17		650	30	86	0.125	0.140	90
	R6524ENZ	C17		650	24	74	0.165	0.185	70
	R6520ENZ	C17		650	20	68	0.185	0.205	61

注：(　)内表示ROHM封装。

高速开关型

Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_C=25°C)	$R_{DS\,(on)}$ (Ω)		Qg (nC) V_{GS}=10V
	Part No.	Packing code					V_{GS}=10V		
							Typ	Max	
TO-252 DPAK (TO-252) 	R6011KND3	TL1	N	600	11	124	0.340	0.390	22
	R6009KND3	TL1		600	9	94	0.500	0.535	16.5
	R6007KND3	TL1		600	7	78	0.570	0.620	15
	R6006KND3	TL1		600	6	70	0.720	0.830	12
	R6003KND3	TL1		600	3	44	1.300	1.500	8
	R6014YND3	TL1		600	14	132	0.215*	0.260*	20
	New R6010YND3	TL1		600	10	92	0.324*	0.390*	15
	R6511KND3	TL1		650	11	124	0.360	0.400	22
	R6509KND3	TL1		650	9	94	0.530	0.585	16.5
	R6507KND3	TL1		650	7	78	0.605	0.665	15
	R6504KND3	TL1		650	4	58	0.955	1.050	10
	R8006KND3	TL1		800	6	83	0.750	0.900	22
	R8003KND3	TL1		800	3	48	1.500	1.800	11.5
	R8002KND3	TL1		800	1.6	30	3.500	4.200	7.5
TO-263S D2PAK (LPTS) 	R6024KNJ	TL	N	600	24	245	0.150	0.165	46
	R6020KNJ	TL		600	20	231	0.170	0.196	40
	R6015KNJ	TL		600	15	184	0.260	0.290	30
	R6011KNJ	TL		600	11	124	0.340	0.390	22
	R6009KNJ	TL		600	9	94	0.500	0.535	16.5
	R6007KNJ	TL		600	7	78	0.570	0.620	15
	R6004KNJ	TL		600	4	58	0.900	0.980	10
	R6524KNJ	TL		650	24	245	0.160	0.185	46
	R6520KNJ	TL		650	20	231	0.185	0.205	40
	R6515KNJ	TL		650	15	184	0.280	0.315	30
	R6511KNJ	TL		650	11	124	0.360	0.400	22
	R6509KNJ	TL		650	9	94	0.530	0.585	16.5
	R6507KNJ	TL		650	7	78	0.605	0.665	15
	R6504KNJ	TL		650	4	58	0.955	1.050	10
TO-220AB (TO-220AB) 	R6049YNX3	C16	N	600	49	448	0.068*	0.082*	65
	New R6038YNX3	C16		600	38	348	0.080*	0.096*	50
	R6027YNX3	C16		600	27	245	0.112*	0.135*	40
	R6022YNX3	C16		600	22	205	0.137*	0.165*	33
	R6020YNX3	C16		600	20	182	0.154*	0.185*	28
	R6014YNX3	C16		600	14	132	0.215*	0.260*	20
	New R6010YNX3	C16		600	10	92	0.324*	0.390*	15
	R6535KNX3	C16		650	35	370	0.098	0.115	72
	R6530KNX3	C16		650	30	307	0.125	0.140	56
	R6524KNX3	C16		650	24	253	0.160	0.185	45
	R6520KNX3	C16		650	20	220	0.185	0.205	40
	R6515KNX3	C16		650	15	161	0.280	0.315	27.5
TO-220FP (TO-220FM) 	R6030KNX	C7 G	N	600	30	86	0.115	0.130	56
	R6024KNX	C7 G		600	24	74	0.150	0.165	46
	R6020KNX	C7 G		600	20	68	0.170	0.196	40
	R6015KNX	C7 G		600	15	60	0.260	0.290	30
	R6011KNX	C7 G		600	11	53	0.340	0.390	22
	R6009KNX	C7 G		600	9	48	0.500	0.535	16.5
	R6007KNX	C7 G		600	7	46	0.570	0.620	15
	R6006KNX	C7 G		600	6	40	0.720	0.830	12
	R6004KNX	C7 G		600	4	35	0.900	0.980	10
	New R6061YNX	C7 G		600	26	100	0.050*	0.060*	80
	R6049YNX	C7 G		600	22	90	0.068*	0.082*	20
	New R6038YNX	C7 G		600	18	81	0.080*	0.096*	50
	R6027YNX	C7 G		600	14	70	0.112*	0.135*	40
	R6022YNX	C7 G		600	13	65	0.137*	0.165*	35
	R6020YNX	C7 G		600	12	62	0.154*	0.185*	30
	R6014YNX	C7 G		600	9	54	0.215*	0.260*	20
	New R6010YNX	C7 G		600	7	47	0.324*	0.390*	15
	R6530KNX	C7 G		650	30	86	0.125	0.140	56
	R6524KNX	C7 G		650	24	74	0.160	0.185	46
	R6520KNX	C7 G		650	20	68	0.185	0.205	40
	R6515KNX	C7 G		650	15	60	0.280	0.315	30
	R6511KNX	C7 G		650	11	53	0.360	0.400	22
	R6509KNX	C7 G		650	9	48	0.530	0.585	16.5
	R6507KNX	C7 G		650	7	46	0.605	0.665	14.5
	R6504KNX	C7 G		650	4	35	0.955	1.050	10
	R8019KNX	C7 G		800	19	83	0.200	0.240	65
	R8011KNX	C7 G		800	11	65	0.370	0.450	37
	R8009KNX	C7 G		800	9	59	0.500	0.600	27
	R8006KNX	C7 G		800	6	52	0.750	0.900	22
	R8003KNX	C7 G		800	3	48	1.500	1.800	11.5
	R8002KNX	C7 G		800	1.6	28	3.500	4.200	7.5

注：(　)内表示ROHM封装。
*V_{GS}=12V

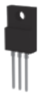
功率MOSFET

高速开关型

Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_C=25°C)	$R_{DS\ (on)}$ (Ω)		Qg (nC) V_{GS}=10V
	Part No.	Packing code					V_{GS}=10V		
							Typ	Max	
TO-247AD (TO-247) 	R6086YNZ4	C13	N	600	86	781	0.036*	0.044*	110
	R6061YNZ4	C13		600	61	568	0.050*	0.060*	76
	R6049YNZ4	C13		600	49	448	0.068*	0.082*	65
	New R6038YNZ4	C13		600	38	348	0.080*	0.096*	50
	R6027YNZ4	C13		600	27	245	0.112*	0.135*	40
	R6022YNZ4	C13		600	22	205	0.137*	0.165*	33
	R6020YNZ4	C13		600	20	182	0.154*	0.185*	28
	R6076KNZ4	C13		600	76	735	0.038	0.042	165
	R6047KNZ4	C13		600	47	481	0.066	0.072	100
	R6035KNZ4	C13		600	35	379	0.095	0.102	72
	R6030KNZ4	C13		600	30	305	0.115	0.130	56
	R6024KNZ4	C13		600	24	245	0.150	0.165	46
	R6020KNZ4	C13		600	20	231	0.170	0.196	40
	R6576KNZ4	C13		650	76	735	0.040	0.046	165
	R6547KNZ4	C13		650	47	481	0.070	0.080	100
	R6535KNZ4	C13		650	35	379	0.098	0.115	72
	R6530KNZ4	C13		650	30	305	0.125	0.140	56
	R6524KNZ4	C13		650	24	245	0.160	0.185	45
	R6520KNZ4	C13		650	20	231	0.185	0.205	40
(TO-3PF) 	R6086YNZ	C17	N	600	33	781	0.036*	0.044*	110
	R6035KNZ	C17		600	35	102	0.092	0.102	72
	R6030KNZ	C17		600	30	86	0.115	0.130	56
	R6024KNZ	C17		600	24	74	0.150	0.165	45
	R6020KNZ	C17		600	20	68	0.170	0.196	40
	R6015KNZ	C17		600	15	60	0.260	0.290	27.5
	R6535KNZ	C17		650	35	102	0.098	0.115	72
	R6530KNZ	C17		650	30	86	0.125	0.140	56
	R6524KNZ	C17		650	24	74	0.160	0.185	45
	R6520KNZ	C17		650	20	68	0.185	0.205	40
	R6515KNZ	C17		650	15	60	0.280	0.315	27.5

注：(　)内表示ROHM封装。
*V_{GS}=12V

高速trr型〈PrestoMOS™〉

Package	Product No.		Polarity (ch)	V_{DSS} (V)	I_D (A)	P_D (W) (T_C=25°C)	$R_{DS (on)}$ (Ω)		Qg Typ (nC) V_{GS}=15V	trr Typ (ns)
	Part No.	Packing code					V_{GS}=15V			
							Typ	Max		
TO-261 SOT-223-3 (SOT-223-3) 	New R6002JND4	TL1	N	600	1	6.6	2.5	3.25	7	40
	New R6003JND4	TL1		600	1.3	7.8	1.65	2.15	8	42
TO-252 DPAK (TO-252) 	R6009JND3	TL1	N	600	9	125	0.450	0.585	22	65
	R6007JND3	TL1		600	7	96	0.600	0.780	17.5	60
	R6006JND3	TL1		600	6	86	0.720	0.936	15.5	58
	R6004JND3	TL1		600	4	60	1.100	1.430	10.5	45
	New R6009RND3	TL1		600	9	125	0.510	0.665	22	55
	New R6007RND3	TL1		600	7	96	0.730	0.940	17.5	50
	New R6004RND3	TL1		600	4	60	1.330	1.730	10.5	40
	R6013VND3	TL1		600	13	131	0.250	0.300	21*	65
TO-263S D2PAK (LPTS) 	R6020JNJ	TL	N	600	20	252	0.180	0.234	45	85
	R6018JNJ	TL		600	18	220	0.220	0.286	42	80
	R6012JNJ	TL		600	12	160	0.300	0.390	28	70
	R6009JNJ	TL		600	9	125	0.450	0.585	22	65
	R6007JNJ	TL		600	7	96	0.600	0.780	17.5	60
	R6006JNJ	TL		600	6	86	0.720	0.936	15.5	58
	R6004JNJ	TL		600	4	60	1.100	1.430	10.5	45
TO-220AB (TO-220AB) 	R6035VNX3	C16	N	600	35	348	0.095	0.114	50*	92
	R6024VNX3	C16		600	24	245	0.127	0.153	38*	80
TO-220FP (TO-220FM) 	R6030JNX	C7 G	N	600	30	95	0.110	0.143	74	100
	R6025JNX	C7 G		600	25	85	0.140	0.182	57	90
	R6020JNX	C7 G		600	20	76	0.180	0.234	45	85
	R6018JNX	C7 G		600	18	72	0.220	0.286	42	80
	R6012JNX	C7 G		600	12	60	0.300	0.390	28	70
	R6009JNX	C7 G		600	9	53	0.450	0.585	22	65
	R6007JNX	C7 G		600	7	46	0.600	0.780	17.5	60
	R6006JNX	C7 G		600	6	43	0.720	0.936	15.5	58
	R6004JNX	C7 G		600	4	35	1.100	1.430	10.5	45
	New R6055VNX	C7 G		600	23	99	0.059	0.071	80*	112
	R6035VNX	C7 G		600	17	81	0.095	0.114	50*	92
	R6024VNX	C7 G		600	13	70	0.127	0.153	38*	80
	R6018VNX	C7 G		600	10	61	0.170	0.204	27*	68
	R6013VNX	C7 G		600	8	54	0.250	0.300	21*	65
TO-247AD (TO-247) 	R6070JNZ4	C13	N	600	70	770	0.045	0.058	165	135
	R6050JNZ4	C13		600	50	615	0.064	0.083	120	120
	R6042JNZ4	C13		600	42	495	0.080	0.104	100	110
	R6030JNZ4	C13		600	30	370	0.110	0.143	74	100
	R6025JNZ4	C13		600	25	306	0.140	0.182	57	90
	R6020JNZ4	C13		600	20	252	0.180	0.234	45	85
	R6077VNZ4	C13		600	77	781	0.042	0.051	108*	125
	R6055VNZ4	C13		600	55	543	0.059	0.071	80*	112
(TO-3PF) 	R6050JNZ	C17	N	600	50	120	0.064	0.083	120	120
	R6030JNZ	C17		600	30	93	0.110	0.143	74	100
	R6025JNZ	C17		600	25	85	0.140	0.182	57	90
	R6020JNZ	C17		600	20	76	0.180	0.234	45	85
	R6077VNZ	C17		600	29	113	0.042	0.051	108*	125
	R6055VNZ	C17		600	23	99	0.059	0.071	80*	112

注：(　)内表示ROHM封装。
*V_{GS}=10V

车载用 MOSFET

车载用 MOSFET

Package	Product No.			Polarity (ch)	V_{DSS} (V)	I_D (A)	V_{GS} (V)	$R_{DS\ (on)}$ (mΩ)										Qg Typ (nC)	Ciss Typ (pF)	Automotive Grade AEC-Q101
	Part No.	Grade Code	Packing code					V_{GS}=10V		V_{GS}=4.5V		V_{GS}=2.5V		V_{GS}=1.8V		V_{GS}=1.5V		V_{GS}=5V	V_{DS}=10V	
								Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max			
 DFN1010-3W (DFN1010-3W) 1010 size	RV8C010UN	HZG	G2CR	N	20	1	±8	—	—	340	470	400	560	470	650	540	810	—	40	YES
	RV8L002SN	HZG	G2CR		60	0.25	±20	1,700	2,400	2,100	3,000	3,000	12,000	—	—	—	—	—	15	YES
	New BSS138BKX	HZG	G2CR		60	1	±20	490	680	580	810	1,000	4,000	—	—	—	—	—	47	YES
	BSS84X	HZG	G2CR	P	−60	−0.23	±20	2,800	5,300	3,500	6,400	—	—	—	—	—	—	—	35	YES
 DFN1616-6W (DFN1616-6W) 1616 size	RV4C020ZP	HZG	TCR1	P	−20	−2	±8	—	—	180	260	240	340	320	450	400	560	2	80	YES
	New RV4C060ZP	HZG	TCR1		−20	−6	±8	—	—	48	66	70	98	90	150	140	280	12	1,270	YES
	RV4E031RP	HZG	TCR1		−30	−3.1	±20	75	105	108	152	—	—	—	—	—	—	4.8	460	YES
 SOT-323 (UMT3) 2021 size	BSS138BWA	HZG	T106	N	60	0.38	±20	500	700	600	840	1,000	4,000	—	—	—	—	—	—	YES
	New BSS138WA	HZG	T106		60	0.31	±20	1,700	2,400	2,100	3,000	3,000	12,000	—	—	—	—	—	—	YES
	BSS84WA	HZG	T106	P	−60	−0.21	±20	3,600	5,300	4,300	6,400	—	—	—	—	—	—	—	—	YES
 SOT-363 (UMT6) 2021 size	UM6K31N	FHA	TCN	N+N	60	0.25	±20	1,700	2,400	2,100	3,000	3,000	12,000	—	—	—	—	—	15*4	YES
 SOT-323T (TUMT3) 2021 size	RUF025N02	FRA	TL	N	20	2.5	±10	—	—	39	54	49	68	65	91	80	160	5*2	370	YES
	RTF025N03	FRA	TL		30	2.5	±12	—	—	48	67	70	98	—	—	—	—	3.7*2	270	YES
	RTF016N05	FRA	TL		45	1.6	±12	—	—	140	190	200	280	—	—	—	—	2.3*2	150	YES
	RSF015N06	FRA	TL		60	1.5	±20	210	290	240	330	—	—	—	—	—	—	2	110	YES
 SOT-363T (TUMT6) 2021 size	RUL035N02	FRA	TR	N	20	3.5	±10	—	—	31	43	38	53	50	70	66	93	5.7*2	460	YES
	RTL035N03	FRA	TR		30	3.5	±12	—	—	40	56	56	79	—	—	—	—	4.6*2	350	YES
	RTL020P02	FRA	TR	P	−20	−2	±12	—	—	100	135	180	250	—	—	—	—	4.9*2	430	YES
	RRL035P03	FRA	TR		−30	−3.5	±20	36	50	52	72	—	—	—	—	—	—	8	800	YES
	RRL025P03	FRA	TR		−30	−2.5	±20	55	75	85	115	—	—	—	—	—	—	5.2	480	YES
	RSL020P03	FRA	TR		−30	−2	±20	80	120	125	190	—	—	—	—	—	—	3.9	350	YES
 TO-236AB SOT-23 (SST3)	RUC002N05	HZG	T116	N	50	0.2	±8	—	—	1,600	2,200	1,700	2,400	—	—	2,000	4,000	—	25	YES
	New BSS670A	HZG	T116		60	0.65	±20	500	650	600	820	—	—	—	—	—	—	—	—	YES
	BSS138BKA	HZG	T116		60	0.4	±20	500	700	600	840	1,000	4,000	—	—	—	—	—	—	YES
	RK7002BM	HZG	T116		60	0.25	±20	1,700	2,400	2,100	3,000	3,000	12,000	—	—	—	—	—	15	YES
	BSS84A	HZG	T116	P	−60	−0.23	±20	2,800	5,300	3,500	6,400	—	—	—	—	—	—	—	—	YES
 SOT-346T (TSMT3) 2928 size	RUR040N02	HZG	TL	N	20	4	±10	—	—	25	35	33	46	—	—	55	110	8*2	680	YES
	RTR040N03	HZG	TL		30	4	±12	—	—	34	48	47	66	—	—	—	—	5.9*2	475	YES
	RTR025N03	HZG	TL		30	2.5	±12	—	—	66	92	95	133	—	—	—	—	3.3*2	220	YES
	RSR025N03	HZG	TL		30	2.5	±20	50	70	74	105	—	—	—	—	—	—	2.9	165	YES
	RTR030N05	HZG	TL		45	3	±12	—	—	48	67	68	95	—	—	—	—	6.2*2	510	YES
	RSR025N05	HZG	TL		45	2.5	±20	70	100	95	150	—	—	—	—	—	—	3.6	260	YES
	RTR025N05	HZG	TL		45	2.5	±12	—	—	95	130	125	175	—	—	—	—	3.2*2	250	YES
	RTR020N05	HZG	TL		45	2	±12	—	—	130	180	180	250	—	—	—	—	2.9*2	200	YES
	RSR030N06	HZG	TL		60	3	±20	60	85	70	100	—	—	—	—	—	—	5	380	YES
	RSR020N06	HZG	TL		60	2	±20	120	170	140	195	—	—	—	—	—	—	2.7	180	YES
	RSR010N10	HZG	TL		100	1	±20	370	520	400	560	—	—	—	—	—	—	3.5	140*4	YES
	RTR030P02	HZG	TL	P	−20	−3	±12	—	—	55	75	90	125	—	—	—	—	9.3*2	840	YES
	RTR025P02	HZG	TL		−20	−2.5	±12	—	—	70	95	115	160	—	—	—	—	7*2	630	YES
	RTR020P02	HZG	TL		−20	−2	±12	—	—	100	135	180	250	—	—	—	—	4.9*2	430	YES
	RRR040P03	HZG	TL		−30	−4	±20	32	45	45	63	—	—	—	—	—	—	10.5	1,000	YES
	RRR030P03	HZG	TL		−30	−3	±20	55	75	85	115	—	—	—	—	—	—	5.2	480	YES
	RSR025P03	HZG	TL		−30	−2.5	±20	70	98	100	140	—	—	—	—	—	—	5.4	460	YES
	RSR020P05	HZG	TL		−45	−2	±20	130	190	180	260	—	—	—	—	—	—	4.5*2	500	YES
	RSR015P06	HZG	TL		−60	−1.5	±20	200	280	240	340	—	—	—	—	—	—	10*1	500	YES
 SOT-457T (TSMT6) 2928 size	RUQ050N02	HZG	TR	N	20	5	±10	—	—	22	30	27	38	—	—	40	80	12*2	900	YES
	RTQ045N03	HZG	TR		30	4.5	±12	—	—	30	43	42	60	—	—	—	—	7.6*2	540	YES
	RSQ045N03	HZG	TR		30	4.5	±20	27	38	36	51	—	—	—	—	—	—	6.8	520	YES
	RSQ035N03	HZG	TR		30	3.5	±20	44	62	60	84	—	—	—	—	—	—	5.3	290	YES
	RTQ035N03	HZG	TR		30	3.5	±12	—	—	38	54	55	77	—	—	—	—	4.6*2	285	YES
	RSQ020N03	HZG	TR		30	2	±20	96	134	148	207	—	—	—	—	—	—	2.2	110	YES
	RVQ040N05	HZG	TR		45	4	±21	38	53	47	66	—	—	—	—	—	—	6.3	530	YES
	RTQ020N05	HZG	TR		45	2	±12	—	—	140	190	200	280	—	—	—	—	2.3*2	150	YES
	RSQ035N06	HZG	TR		60	3.5	±20	50	70	58	82	—	—	—	—	—	—	6.5	430	YES
	RSQ015N06	HZG	TR		60	1.5	±20	210	290	240	330	—	—	—	—	—	—	2	110	YES
	RSQ030N08	HZG	TR		80	3.0	±20	93	131	100	140	—	—	—	—	—	—	6.5*1	550	YES
	QS6K1	FRA	TR	N+N	30	1	±12	—	—	170	238	260	364	—	—	—	—	1.7*2	77	YES
	QS6K21	FRA	TR		45	1	±12	—	—	300	420	415	585	—	—	—	—	1.5*2	95	YES
	RTQ035P02	HZG	TR	P	−20	−3.5	±12	—	—	50	65	80	100	—	—	—	—	10.5*2	1,200	YES
	RTQ025P02	HZG	TR		−20	−2.5	±12	—	—	72	100	140	190	—	—	—	—	6.4*2	580	YES
	RRQ045P03	HZG	TR		−30	−4.5	±20	25	35	34	48	—	—	—	—	—	—	14	1,350	YES
	RSQ035P03	HZG	TR		−30	−3.5	±20	45	65	65	90	—	—	—	—	—	—	9.2	780	YES
	RRQ030P03	HZG	TR		−30	−3	±20	55	75	85	115	—	—	—	—	—	—	5.2	480	YES
	RSQ025P03	HZG	TR		−30	−2.5	±20	80	110	120	165	—	—	—	—	—	—	4.4	320	YES
	RSQ015P10	HZG	TR		−100	−1.5	±20	350	470	380	510	—	—	—	—	—	—	17	950*4	YES

注1：( )内表示ROHM封装。
注2：*1 V_{GS}=10V　*2 V_{GS}=4.5V　*3 V_{GS}=4V　*4 V_{DS}=25V

车载用 MOSFET

Package	Product No.			Polarity (ch)	V_{DSS} (V)	I_D (A)	V_{GS} (V)	$R_{DS\,(on)}$ (mΩ)										Qg Typ (nC)	Ciss Typ (pF)	Automotive Grade AEC-Q101
	Part No.	Grade Code	Packing code					V_{GS}=10V		V_{GS}=4.5V		V_{GS}=2.5V		V_{GS}=1.8V		V_{GS}=1.5V		V_{GS}=5V	V_{DS}=10V	
								Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max			
 (TSMT8) 3028 size	**RQ1C075UN**	FRA	TR	N	20	7.5	±10	–	–	11	16	14	20	–	–	20	40	18^{*1}	1,400	YES
	QS8K2	FRA	TR	N+N	30	3.5	±12	–	–	38	54	55	77	–	–	–	–	4.6^{*1}	285	YES
	RQ1A070ZP	FRA	TR	P	–12	–7	±10	–	–	8	12	11	16	–	–	19	38	58^{*1}	7,400^{*3}	YES
	RQ1E070RP	FRA	TR		–30	–7	±20	12	17	17	24	–	–	–	–	–	–	26	2,700	YES
	RQ1E050RP	FRA	TR		–30	–5	±20	22	31	32	45	–	–	–	–	–	–	13	1,300	YES
	QS8J4	FRA	TR	P+P	–30	–4	±20	40	56	55	77	–	–	–	–	–	–	8.4	800	YES
	QS8M51	FRA	TR	N+P	100	2	±20	240	325	250	340	–	–	–	–	–	–	4.7	290^{*2}	YES
					–100	–1.5	±20	350	470	380	510	–	–	–	–	–	–	17	950^{*2}	

注1：(　)内表示ROHM封装。
注2：*1 V_{GS}=4.5V　*2 V_{DS}=25V　*3 V_{GS}=6V

车载用 功率MOSFET

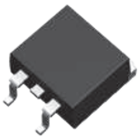
车载用 功率MOSFET

Package	Product No.			Polarity (ch)	V_{DSS} (V)	I_D (A)	V_{GS} (V)	$R_{DS\,(on)}$ (mΩ)						Qg Typ (nC)	Ciss Typ (pF)	Automotive Grade AEC-Q101
	Part No.	Grade Code	Packing code					V_{GS}=10V		V_{GS}=4.5V		V_{GS}=4.0V		V_{GS}=5V	V_{DS}=10V	
								Typ	Max	Typ	Max	Typ	Max			
 SOP8 (SOP8) 5060 size	**RSS130N03**	HZG	TB	N	30	13	±20	5.9	8.3	7.4	10.4	–	–	25	2,000	YES
	RSS100N03	HZG	TB		30	10	±20	9.5	13.3	12.5	17.5	–	–	14	1,070	YES
	RSS095N05	HZG	TB		45	9.5	±20	11	16	14	20	–	–	18.9	1,830	YES
	RSS070N05	HZG	TB		45	7	±20	18	25	23	32	–	–	12	1,000	YES
	RSS065N06	HZG	TB		60	6.5	±20	24	37	28	44	–	–	11	900	YES
	SP8K3	HZG	TB	N+N	30	7	±20	17	24	23	33	–	–	8.4	600	YES
	SP8K2	HZG	TB		30	6	±20	21	30	30	42	–	–	7.2	520	YES
	SP8K24	HZG	TB		45	6	±20	18	25	24	34	–	–	15.4	1,400	YES
	SP8K22	HZG	TB		45	4.5	±20	33	46	41	57	–	–	6.8	550	YES
	SP8K33	HZG	TB		60	5	±20	34	48	38	54	–	–	8	620	YES
	SP8K32	HZG	TB		60	4.5	±20	46	65	52	73	–	–	7	500	YES
	SP8K31	HZG	TB		60	3.5	±20	85	120	100	140	–	–	3.7	250	YES
	SP8K41	HZG	TB		80	3.4	±20	90	130	110	150	120	160	6.6	600	YES
	SP8K52	HZG	TB		100	3	±20	120	170	130	180	–	–	8.5	610^{*3}	YES
	RRS140P03	HZG	TB	P	–30	–14	±20	5	7	6.7	9.4	–	–	80	8,000	YES
	RRS100P03	HZG	TB		–30	–10	±20	9	12.6	12.5	17.5	–	–	39	3,600	YES
	RRS090P03	HZG	TB		–30	–9	±20	11	15.4	15	21	–	–	30	3,000	YES
	RRS050P03	HZG	TB		–30	–5	±20	36	50	52	72	–	–	9.2	850	YES
	RSS070P05	HZG	TB		–45	–7	±20	19	27	25	35	–	–	34	4,100	YES
	RSS060P05	HZG	TB		–45	–6	±20	26	36	35	49	–	–	23	2,700	YES
	SP8J66	HZG	TB	P+P	–30	–9	±20	13.5	18.5	17.5	23.6	–	–	35	3,000	YES
	SP8M4	HZG	TB	N+P	30	9	±20	12	18	16	24	–	–	15	1,190	YES
					–30	–7	±20	20	28	25	35	–	–	25	2,600	
	SP8M5	HZG	TB		30	6	±20	21	30	30	42	–	–	7.2	520	YES
					–30	–7	±20	20	28	25	35	–	–	25	2,600	
	SP8M3	HZG	TB		30	5	±20	36	51	52	73	–	–	3.9	230	YES
					–30	–4.5	±20	40	56	57	80	–	–	8.5	850	
	SP8M6	HZG	TB		30	5	±20	36	51	52	73	–	–	3.9	230	YES
					–30	–3.5	±20	65	90	100	140	–	–	5.5	490	
	SP8M21	HZG	TB		45	6	±20	18	25	24	34	–	–	15.4	1,400	YES
					–45	–4	±20	33	46	43	60	–	–	20	2,400	
	SP8M24	HZG	TB		45	4.5	±20	33	46	41	57	–	–	6.8	550	YES
					–45	–3.5	±20	45	63	60	84	–	–	13	1,700	
	SP8M31	HZG	TB		60	4.5	±20	46	65	52	73	55	77	7	500	YES
					–60	–4.5	±20	50	70	55	80	60	85	40	2,500	
	SP8M41	HZG	TB		80	3.4	±20	90	130	110	150	–	–	6.6	600	YES
					–80	–2.6	±20	165	240	220	300	–	–	8.2	1,000	
	SP8M51	HZG	TB		100	3	±20	120	170	130	180	–	–	8.5	610^{*3}	YES
					–100	–2.5	±20	210	290	230	320	–	–	12.5	1,550^{*3}	

注1：(　)内表示ROHM封装。
注2：*1 V_{GS}=10V　*2 V_{GS}=4V　*3 V_{DS}=25V

车载用 功率MOSFET

车载用 功率MOSFET

Package	Product No.			Polarity (ch)	V_{DSS} (V)	I_D (A)	V_{GS} (V)	$R_{DS\,(on)}$ (mΩ)				Qg Typ (nC)	Ciss Typ (pF)	Automotive Grade AEC-Q101
	Part No.	Grade Code	Packing code					V_{GS}=10V		V_{GS}=4.5V		V_{GS}=10V	V_{DS}=10V	
								Typ	Max	Typ	Max			
 TO-252 DPAK (TO-252)	RD3H200SN	FRA	TL	N	45	20	±20	20	28	25	35	12*3	950	YES
	RD3L220SN	FRA	TL		60	22	±20	18	26	21	30	30	1,500	YES
	RD3L150SN	FRA	TL		60	15	±20	28	40	33	47	18	930	YES
	RD3L080SN	FRA	TL		60	8	±20	57	80	70	98	9.4	380	YES
	RD3L050SN	FRA	TL		60	5	±20	78	109	94	131	8	290	YES
	RD3P200SN	FRA	TL		100	20	±20	33	46	36*2	50*2	55	2,100*1	YES
	RD3P175SN	FRA	TL		100	17.5	±20	75	105	80	112	24	950*1	YES
	RD3P100SN	FRA	TL		100	10	±20	95	133	100	140	18	700*1	YES
	RD3P050SN	FRA	TL		100	5	±20	135	190	142	200	14	530*1	YES
	RD3S100AA	FRA	TL		190	10	±20	130	182	136*2	190*2	52	2,000	YES
	RD3U080AA	FRA	TL		250	8	±30	225	300	–	–	25	1,440*1	YES
	RD3U041AA	FRA	TL		250	4	±30	930	1,300	–	–	8.5	350*1	YES
	R5205PND3	FRA	TL		525	5	±25	1,300	1,600	–	–	10.8	320*1	YES
	R6006PND3	FRA	TL		600	6	±30	900	1,200	–	–	15	460*1	YES
	R6004PND3	FRA	TL		600	4	±25	1,400	1,800	–	–	11	280*1	YES
	R8007AND3	FRA	TL		800	7	±30	1,200	1,600	–	–	28	850	YES
	R8002CND3	FRA	TL		800	2	±30	3,300	4,300	–	–	12.1	240*1	YES
	R8001CND3	FRA	TL		800	1	±30	6,700	8,700	–	–	7.2	60*1	YES
	RD3H160SP	FRA	TL	P	–45	–16	±20	35	50	45	63	16*3	2,000	YES
	RD3H080SP	FRA	TL		–45	–8	±20	65	91	95	133	9*3	1,000	YES
	RD3H045SP	FRA	TL		–45	–4.5	±20	110	155	160	225	12*3	550	YES
	RD3L140SP	FRA	TL		–60	–14	±20	60	84	73	103	27	1,900	YES
	RD3P130SP	FRA	TL		–100	–13	±20	135	200	150	220	40	2,400*1	YES
 TO-263S D2PAK (LPTS)	RSJ451N04	FRG	TL	N	40	45	±20	9.5	13.5	–	–	43	2,400*1	YES
	RSJ400N06	FRG	TL		60	40	±20	11	16	–	–	52	2,400	YES
	RSJ400N10	FRG	TL		100	40	±20	19	27	21*2	30*2	90	3,600*1	YES
	RSJ301N10	FRG	TL		100	30	±20	33	46	36*2	50*2	60	2,100*1	YES
	RJ1U330AA	FRG	TL		250	33	±30	77	105	–	–	80	4,500*1	YES
	R6020PNJ	FRA	TL		600	20	±30	190	250	–	–	65	2,040*1	YES
	R8008ANJ	FRG	TL		800	8	±30	790	1,030	–	–	38	1,100*1	YES
	R8005ANJ	FRG	TL		800	5	±30	1,600	2,100	–	–	20	500*1	YES
	R8002ANJ	FRG	TL		800	2	±30	3,300	4,300	–	–	13	250*1	YES
	RSJ250P10	FRG	TL	P	–100	–25	±20	45	63	48	67	60*3	8,000*1	YES

注1：(　)内表示ROHM封装。
注2：*1 V_{DS}=25V　*2 V_{GS}=4V　*3 V_{GS}=5V

双极晶体管

一般放大用 双极晶体管(扁平引线型)一览表

Package / Polarity / Application	SOT-723 (VMT3) 1212 size		SOT-416FL (EMT3F) 1616 size		SOT-323FL (UMT3F) 2021 size		V_{CEO} (V)	I_C (A)	h_{FE}*2
	 *1 P_D=0.15W		 *1 P_D=0.15W		 *1 P_D=0.2W				
	PNP	NPN	PNP	NPN	PNP	NPN			
General Purpose Amplification	2SAR522M	2SCR522M	2SAR522EB	2SCR522EB	2SAR522UB	2SCR522UB	20	0.2	120 to 560
	2SAR523M	2SCR523M	2SAR523EB	2SCR523EB	2SAR523UB	2SCR523UB	50	0.1	120 to 560
	2SA2029	2SC5658	2SA1774EB	2SC4617EB	2SA1576UB	2SC4081UB	50	0.15	120 to 390
Low $V_{CE\,(sat)}$	2SA2030	2SC5663					12	0.5	270 to 680
		2SD2696					30	0.4	270 to 680
Driver			2SAR502EB	2SCR502EB	2SAR502UB	2SCR502UB	30	0.5	200 to 500

注1：*1 为安装于推荐焊盘时。
注2：*2 关于h_{FE}，请参照规格说明书。
注3：PNP型的 (−) 符号省略。
注4：(　)内表示ROHM封装。

一般放大用 双极晶体管(扁平引线型)

Package	Application	Product No.							Polarity (ch)	P_D*1 (W)	V_{CEO} (V)	I_C (A)	h_{FE}*2	Automotive Grade AEC-Q101
		Part No.	Grade Code		Packing code	h_{FE}*2 Code								
			General	Automotive										
 SOT-723 (VMT3) 1212 size	General Purpose Amplification	2SAR522M	*	—	T2L				PNP	0.15	−20	−0.2	120 to 560	—
		2SAR523M		—	T2L					0.15	−50	−0.1	120 to 560	—
		2SA2029		FHA	T2L	Q	R			0.15	−50	−0.15	120 to 390	YES
	Low $V_{CE\,(sat)}$	2SA2030		—	T2L					0.15	−12	−0.5	270 to 680	—
	General Purpose Amplification	2SCR522M		—	T2L				NPN	0.15	20	0.2	120 to 560	—
		2SCR523M		—	T2L					0.15	50	0.1	120 to 560	—
		2SC5658		FHA	T2L	Q	R			0.15	50	0.15	120 to 390	YES
	Low $V_{CE\,(sat)}$	2SC5663		—	T2L					0.15	12	0.5	270 to 680	—
		2SD2696		—	T2L					0.15	30	0.4	270 to 680	—
 SOT-416FL (EMT3F) 1616 size	General Purpose Amplification	2SAR522EB	*	—	TL				PNP	0.15	−20	−0.2	120 to 560	—
		2SAR523EB		—	TL					0.15	−50	−0.1	120 to 560	—
		2SA1774EB		—	TL	Q	R			0.15	−50	−0.15	120 to 390	—
	Driver	2SAR502EB		—	TL					0.15	−30	−0.5	200 to 500	—
	General Purpose Amplification	2SCR522EB		—	TL				NPN	0.15	20	0.2	120 to 560	—
		2SCR523EB		—	TL					0.15	50	0.1	120 to 560	—
		2SC4617EB		—	TL	Q	R			0.15	50	0.15	120 to 390	—
	Driver	2SCR502EB		—	TL					0.15	30	0.5	200 to 500	—
 SOT-323FL (UMT3F) 2021 size	General Purpose Amplification	2SAR522UB	*	—	TL				PNP	0.2	−20	−0.2	120 to 560	—
		2SAR523UB		—	TL					0.2	−50	−0.1	120 to 560	—
		2SA1576UB		—	TL	Q	R			0.2	−50	−0.15	120 to 390	—
	Driver	2SAR502UB		—	TL					0.2	−30	−0.5	200 to 500	—
	General Purpose Amplification	2SCR522UB		—	TL				NPN	0.2	20	0.2	120 to 560	—
		2SCR523UB		—	TL					0.2	50	0.1	120 to 560	—
		2SC4081UB		—	TL	Q	R			0.2	50	0.15	120 to 390	—
	Driver	2SCR502UB		—	TL					0.2	30	0.5	200 to 500	—

注1：*一般产品的产品性能代码为空白。
注2：*1 为安装于推荐焊盘时。
注3：*2 的h_{FE}表示N：56～120，P：82～180，Q：120～270，R：180～390，S：270～560。详情请参考规格书等。
注4：(　)内表示ROHM封装。

一般放大用 双极晶体管(鸥翼引线型)一览表

Package / Polarity / Application	SOT-416 (EMT3) 1616 size		SOT-323 (UMT3) 2021 size		TO-236 SOT-346 (SMT3) 2928 size		TO-236AB SOT-23 (SST3) 2924 size		V_{CEO} (V)	I_C (A)	h_{FE}*2
	 *1 P_D=0.15W		 *1 P_D=0.2W		 *1 P_D=0.2W		 *1 P_D=0.2W				
	PNP	NPN	PNP	NPN	PNP	NPN	PNP	NPN			
General Purpose Amplification	2SA1774E3	2SC4617E3	2SA1576U3	2SC4081U3	2SA1037AK	2SC2412K			50	0.15	120 to 390
Low $V_{CE\,(sat)}$	2SA2018E3	2SC5585E3			2SA2119K				12	0.5	270 to 680
			2SB1689	2SD2652					12	1.5	270 to 680
					2SB1690K	2SD2653K			12	2	270 to 680
						2SD1757K			15	0.5	120 to 560
					2SB1590K				15	1	120 to 390
						2SD2444K			15	1	180 to 390
			2SB1694	2SD2656					30	1	270 to 680
					2SB1695K	2SD2657K			30	1.5	270 to 680
Driver	2SAR502E3	2SCR502E3	2SAR502U3	2SCR502U3					30	0.5	200 to 500
			2SA1577	2SC4097	2SA1036K	2SC2411K			32	0.5	120 to 390
					2SB1197K	2SD1781K			32	0.8	120 to 390
				2SD1949		2SD1484K			50	0.5	120 to 390
					2SB1198K	2SD1782K			80	0.5	120 to 390
High Speed Switching			2SA2088U3	2SC5876U3					60	0.5	120 to 270 120 to 390
High Voltage			2SA1579U3	2SC4102U3	2SA1514K	2SC3906K	2SARA41C	2SCRC41C	120	0.05	180 to 560
						2SC4061K			300	0.1	56 to 120

注1：*1 为安装于推荐焊盘时。
注2：*2 关于h_{FE}，请参照规格说明书。
注3：PNP型的 (−) 符号省略。
注4：(　)内表示ROHM封装。

双极晶体管

一般放大用 双极晶体管(鸥翼引线型)

Package	Application	Product No.							Polarity (ch)	P_D*1 (W)	V_{CEO} (V)	I_C (A)	h_{FE}*2	Automotive Grade AEC-Q101
		Part No.	Grade Code		Packing code	h_{FE}*2 Code								
			General	Automotive										
 SOT-416 (EMT3) 1616 size	General Purpose Amplification	2SA1774E3	*	HZG	TL	Q	R		PNP	0.15	−50	−0.15	120 to 390	YES
	Low $V_{CE(sat)}$	2SA2018E3		HZG	TL					0.15	−12	−0.5	270 to 680	YES
	Driver	2SAR502E3		HZG	TL					0.15	−30	−0.5	200 to 500	YES
	General Purpose Amplification	2SC4617E3		HZG	TL	Q	R		NPN	0.15	50	0.15	120 to 390	YES
	Low $V_{CE(sat)}$	2SC5585E3		–	TL					0.15	12	0.5	270 to 680	–
	Driver	2SCR502E3		HZG	TL					0.15	30	0.5	200 to 500	YES
 SOT-323 (UMT3) 2021 size	General Purpose Amplification	2SA1576U3	*	HZG	T106	Q	R		PNP	0.2	−50	−0.15	120 to 390	YES
	Low $V_{CE(sat)}$	2SB1689		–	T106					0.2	−12	−1.5	270 to 680	–
		2SB1694		–	T106					0.2	−30	−1	270 to 680	–
	Driver	2SAR502U3		HZG	T106					0.2	−30	−0.5	200 to 500	YES
		2SA1577		–	T106	Q	R			0.2	−32	−0.5	120 to 390	–
	High Speed Switching	2SA2088U3		HZG	T106	Q				0.2	−60	−0.5	120 to 270	YES
	High Voltage	2SA1579U3		HZG	T106	R	S			0.2	−120	−0.05	180 to 560	YES
	General Purpose Amplification	2SC4081U3		HZG	T106	Q	R		NPN	0.2	50	0.15	120 to 390	YES
	Low $V_{CE(sat)}$	2SD2652		–	T106					0.2	12	1.5	270 to 680	–
		2SD2656		–	T106					0.2	30	1	270 to 680	–
	Driver	2SCR502U3		HZG	T106					0.2	30	0.5	200 to 500	YES
		2SC4097		–	T106	Q	R			0.2	32	0.5	120 to 390	–
		2SD1949		–	T106	Q	R			0.2	50	0.5	120 to 390	–
	High speed Switching	2SC5876U3		HZG	T106	Q	R			0.2	60	0.5	120 to 390	YES
	High Voltage	2SC4102U3		HZG	T106	R	S			0.2	120	0.05	180 to 560	YES
 TO-236 SOT-346 (SMT3) 2928 size	General Purpose Amplification	2SA1037AK	*	–	T146	Q	R		PNP	0.2	−50	−0.15	120 to 390	–
	Low $V_{CE(sat)}$	2SA2119K		–	T146					0.2	−12	−0.5	270 to 680	–
		2SB1690K		–	T146					0.2	−12	−2	270 to 680	–
		2SB1590K		–	T146	Q				0.2	−15	−1	120 to 390	–
		2SB1695K		–	T146					0.2	−30	−1.5	270 to 680	–
	Driver	2SA1036K		–	T146	Q	R			0.2	−32	−0.5	120 to 390	–
		2SB1197K		–	T146	Q	R			0.2	−32	−0.8	120 to 390	–
		2SB1198K		–	T146	Q	R			0.2	−80	−0.5	120 to 390	–
	High Voltage	2SA1514K		–	T146	R	S			0.2	−120	−0.05	180 to 560	–
	General Purpose Amplification	2SC2412K		–	T146	Q	R		NPN	0.2	50	0.15	120 to 390	–
	Low $V_{CE(sat)}$	2SD2653K		–	T146					0.2	12	2	270 to 680	–
		2SD1757K		–	T146	Q	R	S		0.2	15	0.5	120 to 560	–
		2SD2444K		–	T146	R				0.2	15	1	180 to 390	–
		2SD2657K		–	T146					0.2	30	1.5	270 to 680	–
	Driver	2SC2411K		–	T146	Q	R			0.2	32	0.5	120 to 390	–
		2SD1781K		–	T146	Q	R			0.2	32	0.8	120 to 390	–
		2SD1484K		–	T146	Q	R			0.2	50	0.5	120 to 390	–
		2SD1782K		–	T146	Q	R			0.2	80	0.5	120 to 390	–
	High Voltage	2SC3906K		–	T146	R	S			0.2	120	0.05	180 to 560	–
		2SC4061K		–	T146	N				0.2	300	0.1	56 to 120	–
 TO-236AB SOT-23 (SST3) 2924 size	High Voltage	2SARA41C	*	HZG	T116	R	S		PNP	0.2	−120	−0.05	180 to 560	YES
		2SCRC41C		HZG	T116	R	S		NPN	0.2	120	0.05	180 to 560	YES

注1：*一般产品的产品性能代码为空白。
注2：*1 为安装于推荐焊盘时。
注3：*2 的h_{FE}表示N：56～120，P：82～180，Q：120～270，R：180～390，S：270～560。详情请参考规格书等。
注4：(　)内表示ROHM封装。

双极晶体管(日本以外型号)一览表

Package Polarity Application	SOT-323 (UMT3) 2021 size		TO-236AB SOT-23 (SST3) 2924 size		V_{CEO} (V)	I_C (A)	h_{FE}*2
	 *1 P_D=0.2W		 *1 P_D=0.2W				
	PNP	NPN	PNP	NPN			
General Purpose Amplification	**BC858BW**	**BC848BW**	**BC858B**	**BC848B**	30	0.1	200 to 450
		BC847BU3		**BC847B**	45	0.1	200 to 450
	BC857BU3		**BC857B**		45	0.1	210 to 480
			BC857C	**BC847C**	45	0.1	420 to 800
				BC846B	65	0.12	200 to 450
			BC856B		65	0.1	220 to 475
			BSS63A	**BSS64A**	100	0.1	30 or more
Driver			**BSS5130A**	**BSS4130A**	30	1	270 to 680
			BC807-16	**BC817-16**	45	0.8	100 to 250
			BC807-25	**BC817-25**	45	0.8	160 to 400
			BC807-40	**BC817-40**	45	0.8	250 to 600
			BCX17	**BCX19**	45	0.5	100 to 600
			SSTA56	**SSTA06**	80	0.5	100 or more
Switching	**UMT3906**	**UMT3904**	**SST3906**	**SST3904**	40	0.2	100 to 300
	UMT4403U3	**UMT4401U3**	**SST4403**	**SST4401**	40	0.6	100 to 300
		UM2222AU3		**SST2222A**	40	0.6	100 to 300
	UMT2907A		**SST2907A**		60	0.6	100 to 300
Darlington*3				**SSTA28**	80 (V_{CES})	0.3	10,000 or more

注1：*1 为安装于推荐焊盘时。
注2：*2 关于h_{FE}，请参照规格说明书。
注3：*3 关于内部电路，请参照规格说明书。
注4：PNP型的 (−) 符号省略。
注5：(　)内表示ROHM封装。

双极晶体管(日本以外型号)

Package	Application	Product No.				Polarity (ch)	P_D*1 (W)	V_{CEO} (V)	I_C (A)	h_{FE}*2	Automotive Grade AEC-Q101
		Part No.	Grade Code		Packing code						
			General	Automotive							
 SOT-323 (UMT3) 2021 size	General Purpose Amplification	**BC858BW**	*	–	T106	PNP	0.2	−30	−0.1	210 to 480	–
		BC857BU3		HZG	T106		0.2	−45	−0.1	210 to 480	YES
	Switching	**UMT3906**		–	T106		0.2	−40	−0.2	100 to 300	–
		UMT4403U3		HZG	T106		0.2	−40	−0.6	100 to 300	YES
		UMT2907A		–	T106		0.2	−60	−0.6	100 to 300	–
	General Purpose Amplification	**BC848BW**		–	T106	NPN	0.2	30	0.1	200 to 450	–
		BC847BU3		HZG	T106		0.2	45	0.1	200 to 450	YES
	Switching	**UMT3904**		–	T106		0.2	40	0.2	100 to 300	–
		UMT4401U3		HZG	T106		0.2	40	0.6	100 to 300	YES
		UM2222AU3		HZG	T106		0.2	40	0.6	100 to 300	YES
 TO-236AB SOT-23 (SST3) 2924 size	General Purpose Amplification	**BC858B**	*	HZG	T116	PNP	0.2	−30	−0.1	210 to 480	YES
		BC857B		HZG	T116		0.2	−45	−0.1	210 to 480	YES
		BC857C		HZG	T116		0.2	−45	−0.1	420 to 800	YES
		BC856B		HZG	T116		0.2	−65	−0.1	220 to 475	YES
		BSS63A		HZG	T116		0.2	−100	−0.1	30 or more	YES
	Driver	**BSS5130A**		HZG	T116		0.2	−30	−1	270 to 680	YES
		BCX17		HZG	T116		0.2	−45	−0.5	100 to 600	YES
		BC807-16		HZG	T116		0.2	−45	−0.8	100 to 250	YES
		BC807-25		HZG	T116		0.2	−45	−0.8	160 to 400	YES
		BC807-40		HZG	T116		0.2	−45	−0.8	250 to 600	YES
		SSTA56		HZG	T116		0.2	−80	−0.5	100 or more	YES
	Switching	**SST4403**		HZG	T116		0.2	−40	−0.6	100 to 300	YES
		SST2907A		HZG	T116		0.2	−60	−0.6	100 to 300	YES
		SST3906		HZG	T116		0.2	−40	−0.2	100 to 300	YES
	General Purpose Amplification	**BC848B**		HZG	T116	NPN	0.2	30	0.1	200 to 450	YES
		BC847B		HZG	T116		0.2	45	0.1	200 to 450	YES
		BC847C		HZG	T116		0.2	45	0.1	420 to 800	YES
		BC846B		HZG	T116		0.2	65	0.12	200 to 450	YES
		BSS64A		HZG	T116		0.2	100	0.1	30 or more	YES
	Driver	**BSS4130A**		HZG	T116		0.2	30	1	270 to 680	YES
		BCX19		HZG	T116		0.2	45	0.5	100 to 600	YES
		BC817-16		HZG	T116		0.2	45	0.8	100 to 250	YES
		BC817-25		HZG	T116		0.2	45	0.8	160 to 400	YES
		BC817-40		HZG	T116		0.2	45	0.8	250 to 600	YES
		SSTA06		HZG	T116		0.2	80	0.5	100 or more	YES
	Switching	**SST3904**		HZG	T116		0.2	40	0.2	100 to 300	YES
		SST4401		HZG	T116		0.2	40	0.6	100 to 300	YES
		SST2222A		HZG	T116		0.2	40	0.6	100 to 300	YES
	Darlington*3	**SSTA28**		–	T116		0.2	80 (V_{CES})	0.3	10,000 or more	–

注1：*一般产品的产品性能代码为空白。
注2：*1 为安装于推荐焊盘时。
注3：*2 关于h_{FE}，请参照规格说明书。
注4：*3 关于内部电路，请参照规格说明书。
注5：(　)内表示ROHM封装。

双极晶体管

高h_{FE}、静噪、达林顿 双极晶体管一览表

Package / Polarity / Application	SOT-723 (VMT3) 1212 size		SOT-416 (EMT3) 1616 size		TO-236 SOT-346 (SMT3) 2928 size		V_{CEO} (V)	I_C (A)	h_{FE}*2
	 *1 P_D=0.15W		 *1 P_D=0.15W		 *1 P_D=0.2W				
	PNP	NPN	PNP	NPN	PNP	NPN			
High h_{FE} · Muting						**2SD2704K**	25 (V_{EBO})	0.3	820 to 2,700
						2SD2114K	20	0.5	820 to 2,700
		2SD2707		New **2SD2654E3**		**2SD2226K**	50	0.15	820 to 2,700
Darlington*3						**2SD2142K**	30	0.3	5,000 or more
					2SB852K	**2SD1383K**	32 (V_{CES})	0.3	5,000 or more

注1：*1 为安装于推荐焊盘时。
注2：*2 关于h_{FE}，请参照规格说明书。
注3：*3 关于内部电路，请参照规格说明书。
注4：PNP型的 (–) 符号省略。
注5：(　)内表示ROHM封装。

高h_{FE}、静噪、达林顿 双极晶体管

Package	Application	Product No.						Polarity (ch)	P_D*1 (W)	V_{CEO} (V)	I_C (A)	h_{FE}*2	
		Part No.	Grade Code		Packing code	h_{FE}*2 Code							
			General	Automotive									
 SOT-723 (VMT3) 1212 size	High h_{FE}· Muting	**2SD2707**	*	–	T2L	V	W	NPN	0.15	50	0.15	820 to 2,700	W: Not Recommended
 SOT-416 (EMT3) 1616 size	High h_{FE}· Muting	New **2SD2654E3**	*	–	TL	V	W	NPN	0.15	50	0.15	820 to 2,700	
 TO-236 SOT-346 (SMT3) 2928 size	Darlington*3	**2SB852K**	*	–	T146	B		PNP	0.2	–32 (V_{CES})	–0.3	5,000 or more	
	High h_{FE}· Muting	**2SD2704K**		–	T146			NPN	0.2	25 (V_{EBO})	0.3	820 to 2,700	
		2SD2114K		–	T146	V	W		0.2	20	0.5	820 to 2,700	
		2SD2226K		–	T146	V	W		0.2	50	0.15	820 to 2,700	
	Darlington*3	**2SD2142K**		–	T146				0.2	30	0.3	5,000 or more	
		2SD1383K		–	T146	B			0.2	32 (V_{CES})	0.3	5,000 or more	

注1：*一般产品的产品性能代码为空白。
注2：*1 为安装于推荐焊盘时。
注3：*2 的h_{FE}表示B：5,000以上，V：820 ～ 1,800，W：1,200 ～ 2,700。详情请参考规格书等。
注4：*3 关于内部电路，请参照规格说明书。
注5：(　)内表示ROHM封装。

低饱和、驱动器用 双极晶体管一览表

Package Polarity Application	SOT-323T/SOT-363T (TUMT3/TUMT6) 2021 size		SOT-346T/SOT-457T (TSMT3/TSMT6) 2928 size		V_{CEO} (V)	I_C (A)	h_{FE}*2
	 *1 P_D=0.4W		 *1 P_D=0.5W				
	PNP	NPN	PNP	NPN			
Low $V_{CE\ (sat)}$	**2SB1732**	**2SD2702**	**2SB1709**	**2SD2674**	12	1.5	270 to 680
	2SB1730	**2SD2700**	**2SB1690**	**2SD2653**	12	2	270 to 680
			2SB1705	**2SD2670**	12	3	270 to 680
			2SB1707	**2SD2672**	12	4	270 to 680
			QST2*3	**QSX1***3	12	6	270 to 680
	2SB1733	**2SD2703**	**2SB1710**	**2SD2675**	30	1	270 to 680
	2SB1731	**2SD2701**	**2SB1695**	**2SD2657**	30	1.5	270 to 680
			2SB1706	**2SD2671**	30	2	270 to 680
			2SB1708	**2SD2673**	30	3	270 to 680
			QST3*3	**QSX2***3	30	5	270 to 680
Driver			**2SAR512R**	**2SCR512R**	30	2	200 to 500
			2SAR513R	**2SCR513R**	50	1	180 to 450
			2SAR553R	**2SCR553R**	50	2	180 to 450
			2SAR543R	**2SCR543R**	50	3	180 to 450
			2SAR514R	**2SCR514R**	80	0.7	120 to 390
			2SAR554R	**2SCR554R**	80	1.5	120 to 390
			2SAR544R	**2SCR544R**	80	2.5	120 to 390
High Speed Switching			**2SA2094**	**2SC5866**	60	2	120 to 270 120 to 390
High Voltage			**2SAR340Q***3	**2SCR341Q***3	400	0.1	82 to 270

注1：*1 为安装于推荐焊盘时。
注2：*2 关于h_{FE}，请参照规格说明书。
注3：*3 关于6pin封装(TSMT6/TUMT6)的内部电路，请参照规格说明书。
注4：PNP型的 (－) 符号省略。
注5：(　)内表示ROHM封装。

双极晶体管

低饱和、驱动器用 双极晶体管

Package	Application	Product No.						Polarity (ch)	P_D*1 (W)	V_{CEO} (V)	I_C (A)	h_{FE}*2	Automotive Grade AEC-Q101
		Part No.	Grade Code General	Grade Code Automotive	Packing code	h_{FE}*2 Code							
 SOT-323T (TUMT3) 2021 size	Low $V_{CE(sat)}$	2SB1732	*	—	TL			PNP	0.4	–12	–1.5	270 to 680	—
		2SB1730		—	TL				0.4	–12	–2	270 to 680	—
		2SB1733		—	TL				0.4	–30	–1	270 to 680	—
		2SB1731		—	TL				0.4	–30	–1.5	270 to 680	—
		2SD2702		—	TL			NPN	0.4	12	1.5	270 to 680	—
		2SD2700		—	TL				0.4	12	2	270 to 680	—
		2SD2703		—	TL				0.4	30	1	270 to 680	—
		2SD2701		—	TL				0.4	30	1.5	270 to 680	—
 SOT-346T (TSMT3) 2928 size	Low $V_{CE(sat)}$	2SB1709	*	—	TL			PNP	0.5	–12	–1.5	270 to 680	—
		2SB1690		—	TL				0.5	–12	–2	270 to 680	—
		2SB1705		—	TL				0.5	–12	–3	270 to 680	—
		2SB1707		—	TL				0.5	–12	–4	270 to 680	—
		2SB1710		—	TL				0.5	–30	–1	270 to 680	—
		2SB1695		—	TL				0.5	–30	–1.5	270 to 680	—
		2SB1706		—	TL				0.5	–30	–2	270 to 680	—
		2SB1708		—	TL				0.5	–30	–3	270 to 680	—
	Driver	2SAR512R		HZG	TL				0.5	–30	–2	200 to 500	YES
		2SAR513R		HZG	TL				0.5	–50	–1	180 to 450	YES
		2SAR553R		HZG	TL				0.5	–50	–2	180 to 450	YES
		2SAR543R		—	TL				0.5	–50	–3	180 to 450	—
		2SAR514R		HZG	TL				0.5	–80	–0.7	120 to 390	YES
		2SAR554R		—	TL				0.5	–80	–1.5	120 to 390	—
		2SAR544R		—	TL				0.5	–80	–2.5	120 to 390	—
	High Speed Switching	2SA2094		—	TL	Q			0.5	–60	–2	120 to 270	—
	Low $V_{CE(sat)}$	2SD2674		—	TL			NPN	0.5	12	1.5	270 to 680	—
		2SD2653		—	TL				0.5	12	2	270 to 680	—
		2SD2670		—	TL				0.5	12	3	270 to 680	—
		2SD2672		—	TL				0.5	12	4	270 to 680	—
		2SD2675		—	TL				0.5	30	1	270 to 680	—
		2SD2657		—	TL				0.5	30	1.5	270 to 680	—
		2SD2671		—	TL				0.5	30	2	270 to 680	—
		2SD2673		—	TL				0.5	30	3	270 to 680	—
	Driver	2SCR512R		HZG	TL				0.5	30	2	200 to 500	YES
		2SCR513R		HZG	TL				0.5	50	1	180 to 450	YES
		2SCR553R		HZG	TL				0.5	50	2	180 to 450	YES
		2SCR543R		—	TL				0.5	50	3	180 to 450	—
		2SCR514R		HZG	TL				0.5	80	0.7	120 to 390	YES
		2SCR554R		—	TL				0.5	80	1.5	120 to 390	—
		2SCR544R		—	TL				0.5	80	2.5	120 to 390	—
	High Speed Switching	2SC5866		—	TL	Q	R		0.5	60	2	120 to 390	—
 SOT-457T (TSMT6) 2928 size	Low $V_{CE(sat)}$	QST2*3	*	—	TR			PNP	0.5	–12	–6	270 to 680	—
		QST3*3		—	TR				0.5	–30	–5	270 to 680	—
	High Voltage	2SAR340Q*3		—	TR	P	Q		0.5	–400	–0.1	82 to 270	—
	Low $V_{CE(sat)}$	QSX1*3		—	TR			NPN	0.5	12	6	270 to 680	—
		QSX2*3		—	TR				0.5	30	5	270 to 680	—
	High Voltage	2SCR341Q*3		—	TR	P	Q		0.5	400	0.1	82 to 270	—

注1：*一般产品的产品性能代码为空白。
注2：*1 为安装于推荐焊盘时。
注3：*2 的h_{FE}表示P：82～180，Q：120～270，R：180～390。详情请参考规格书等。
注4：*3 关于6pin封装(TSMT6)的内部电路，请参照规格说明书。
注5：(　)内表示ROHM封装。

功率双极晶体管一览表

Package Polarity Application	DFN2020-3S (HUML2020L3) 2020 size		TO-243 SOT-89 (MPT3) 4540 size		TO-252 DPAK (TO-252)		TO-263AB (LPTL)		V_{CEO} (V)	I_C (A)	h_{FE}*3
	 *1 P_D=0.5W		 *1 P_D=0.5W		 *2 P_D=10W		 *2 P_D=40W				
	PNP	NPN	PNP	NPN	PNP	NPN	PNP	NPN			
Gate Driver			2SAR642P	2SCR642P					30	10*5	200 to 500
Driver			2SB1697	2SD2661					12	2	270 to 680
			2SAR293P 2SAR293P5	2SCR293P 2SCR293P5					30	1	270 to 680
			2SAR512P 2SAR512P5	2SCR512P 2SCR512P5					30	2	200 to 500
			2SAR552P 2SAR552P5	2SCR552P 2SCR552P5					30	3	200 to 500
	2SAR542F3	2SCR542F3							30	3	200 to 500
			2SAR542P	2SCR542P	2SAR572D3	2SCR572D3			30	5	200 to 500
	2SAR562F3	2SCR562F3							30	6	200 to 500
					2SAR582D3	2SCR582D3			30	10	200 to 500
			2SAR513P 2SAR513P5	2SCR513P 2SCR513P5					50	1	180 to 450
			2SAR553P 2SAR553P5	2SCR553P 2SCR553P5					50	2	180 to 450
			2SAR533P 2SAR533P5	2SCR533P 2SCR533P5					50	3	180 to 450
					2SAR573D3	2SCR573D3			50	3	180 to 450
	2SAR563F3	2SCR563F3							50	6	180 to 450
					2SAR583D3	2SCR583D3			50	7	180 to 450
			2SAR514P 2SAR514P5	2SCR514P 2SCR514P5					80	0.7	120 to 390
			2SAR554P 2SAR554P5	2SCR554P 2SCR554P5					80	1.5	120 to 390
					2SAR574D3	2SCR574D3			80	2	120 to 390
			2SAR544P 2SAR544P5	2SCR544P 2SCR544P5					80	2.5	120 to 390
	2SAR564F3	2SCR564F3							80	4	120 to 390
					2SAR586D3	2SCR586D3	2SAR586J	2SCR586J	80	5	120 to 390
			2SAR372P 2SAR372P5	2SCR372P 2SCR372P5					120	0.7	120 to 390
			2SAR375P 2SAR375P5	2SCR375P 2SCR375P5					120	1.5	120 to 390
	2SAR567F3	2SCR567F3							120	2.5	120 to 390
					2SAR587D3	2SCR587D3			120	3	120 to 390
High Voltage			2SAR340P	2SCR346P					400	0.1	82 to 270
High Speed Switching			2SA2071P5	2SC5824					60	3	120 to 270 120 to 390
High h_{FE}				2SD2537					25	1.2	820 to 1,800
			2SB1427						20	2	390 to 820
				2SD2153					25	2	560 to 2,700
Darlington*4				2SD1834					60 (V_{CES})	1	2k or more

注1：*1 为安装于推荐焊盘时。
注2：*2 T_C=25℃
注3：*3 关于h_{FE}，请参照规格说明书。
注4：*4 关于内部电路，请参照规格说明书。
注5：*5 Pw=1ms，单脉冲。
注6：PNP型的 (−) 符号省略。
注7：(　)内表示ROHM封装。

双极晶体管

功率双极晶体管

Package	Application	Product No.							Polarity (ch)	P_D*1 (W)	V_{CEO} (V)	I_C (A)	h_{FE}*3	Automotive Grade AEC-Q101
		Part No.	Grade Code		Packing code	h_{FE}*3 Code								
			General	Automotive										
 DFN2020-3S (HUML2020L3) 2020 size	Driver	2SAR542F3	*	—	TR				PNP	0.5	–30	–3	200 to 500	—
		2SAR562F3		—	TR					0.5	–30	–6	200 to 500	—
		2SAR563F3		—	TR					0.5	–50	–6	180 to 450	—
		2SAR564F3		—	TR					0.5	–80	–4	120 to 390	—
		2SAR567F3		—	TR					0.5	–120	–2.5	120 to 390	—
		2SCR542F3		—	TR				NPN	0.5	30	3	200 to 500	—
		2SCR562F3		—	TR					0.5	30	6	200 to 500	—
		2SCR563F3		—	TR					0.5	50	6	180 to 450	—
		2SCR564F3		—	TR					0.5	80	4	120 to 390	—
		2SCR567F3		—	TR					0.5	120	2.5	120 to 390	—
 TO-243 SOT-89 (MPT3) 4540 size	Gate Driver	2SAR642P	—	HZG	T100				PNP	0.5	–30	–10*4	200 to 500	YES
	Driver	2SB1697	*	—	T100					0.5	–12	–2	270 to 680	—
		2SAR293P	—	HZG	T100					0.5	–30	–1	270 to 680	YES
		2SAR293P5	*	—	T100					0.5	–30	–1	270 to 680	—
		2SAR512P	—	HZG	T100					0.5	–30	–2	200 to 500	YES
		2SAR512P5	*	—	T100					0.5	–30	–2	200 to 500	—
		2SAR552P	—	HZG	T100					0.5	–30	–3	200 to 500	YES
		2SAR552P5	*	—	T100					0.5	–30	–3	200 to 500	—
		2SAR542P	*	FRA	T100					0.5	–30	–5	200 to 500	YES
		2SAR513P	—	HZG	T100					0.5	–50	–1	180 to 450	YES
		2SAR513P5	*	—	T100					0.5	–50	–1	180 to 450	—
		2SAR553P	—	HZG	T100					0.5	–50	–2	180 to 450	YES
		2SAR553P5	*	—	T100					0.5	–50	–2	180 to 450	—
		2SAR533P	—	HZG	T100					0.5	–50	–3	180 to 450	YES
		2SAR533P5	*	—	T100					0.5	–50	–3	180 to 450	—
		2SAR514P	—	HZG	T100					0.5	–80	–0.7	120 to 390	YES
		2SAR514P5	*	—	T100					0.5	–80	–0.7	120 to 390	—
		2SAR554P	—	HZG	T100					0.5	–80	–1.5	120 to 390	YES
		2SAR554P5	*	—	T100					0.5	–80	–1.5	120 to 390	—
		2SAR544P	—	HZG	T100					0.5	–80	–2.5	120 to 390	YES
		2SAR544P5	*	—	T100					0.5	–80	–2.5	120 to 390	—
		2SAR372P	—	HZG	T100	Q	R			0.5	–120	–0.7	120 to 390	YES
		2SAR372P5	*	—	T100	Q	R			0.5	–120	–0.7	120 to 390	—
		2SAR375P	—	HZG	T100	Q	R			0.5	–120	–1.5	120 to 390	YES
		2SAR375P5	*	—	T100	Q	R			0.5	–120	–1.5	120 to 390	—
	High Voltage	2SAR340P	*	—	T100	P	Q			0.5	–400	–0.1	82 to 270	—
	High Speed Switching	2SA2071P5	*	—	T100	Q				0.5	–60	–3	120 to 270	—
	High h_{FE}	2SB1427	*	—	T100	E				0.5	–20	–2	390 to 820	—
	Gate Driver	2SCR642P	—	HZG	T100				NPN	0.5	30	10*4	200 to 500	YES
	Driver	2SD2661	*	—	T100					0.5	12	2	270 to 680	—
		2SCR293P	—	HZG	T100					0.5	30	1	270 to 680	YES
		2SCR293P5	*	—	T100					0.5	30	1	270 to 680	—
		2SCR512P	—	HZG	T100					0.5	30	2	200 to 500	YES
		2SCR512P5	*	—	T100					0.5	30	2	200 to 500	—
		2SCR552P	—	HZG	T100					0.5	30	3	200 to 500	YES
		2SCR552P5	*	—	T100					0.5	30	3	200 to 500	—
		2SCR542P	*	FRA	T100					0.5	30	5	200 to 500	YES
		2SCR513P	—	HZG	T100					0.5	50	1	180 to 450	YES
		2SCR513P5	*	—	T100					0.5	50	1	180 to 450	—
		2SCR553P	—	HZG	T100					0.5	50	2	180 to 450	YES
		2SCR553P5	*	—	T100					0.5	50	2	180 to 450	—
		2SCR533P	—	HZG	T100					0.5	50	3	180 to 450	YES
		2SCR533P5	*	—	T100					0.5	50	3	180 to 450	—
		2SCR514P	—	HZG	T100					0.5	80	0.7	120 to 390	YES
		2SCR514P5	*	—	T100					0.5	80	0.7	120 to 390	—
		2SCR554P	—	HZG	T100					0.5	80	1.5	120 to 390	YES
		2SCR554P5	*	—	T100					0.5	80	1.5	120 to 390	—
		2SCR544P	—	HZG	T100					0.5	80	2.5	120 to 390	YES
		2SCR544P5	*	—	T100					0.5	80	2.5	120 to 390	—
		2SCR372P	—	HZG	T100	Q	R			0.5	120	0.7	120 to 390	YES
		2SCR372P5	*	—	T100	Q	R			0.5	120	0.7	120 to 390	—
		2SCR375P	—	HZG	T100	Q	R			0.5	120	1.5	120 to 390	YES
		2SCR375P5	*	—	T100	Q	R			0.5	120	1.5	120 to 390	—
	High Voltage	2SCR346P	*	—	T100	P	Q			0.5	400	0.1	82 to 270	—
	High Speed Switching	2SC5824	*	—	T100	Q	R			0.5	60	3	120 to 390	—
	High h_{FE}	2SD2537	*	—	T100	V				0.5	25	1.2	820 to 1,800	—
		2SD2153	*	—	T100	U	V	W		0.5	25	2	560 to 2,700	—
	Darlington*5	2SD1834	*	—	T100					0.5	60 (V_{CES})	1	2k or more	—

注1：*一般产品的产品性能代码为空白。
注2：*1 为安装于推荐焊盘时。
注3：*3 的h_{FE}表示P：82～180，Q：120～270，R：180～390，U：560～1200，V：820～1800，W：1200～2700。详情请参考规格书等。
注4：*4 Pw=1ms，单脉冲。
注5：*5 关于内部电路，请参照规格说明书。
注6：( )内表示ROHM封装。

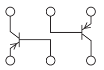
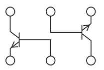
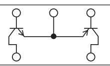
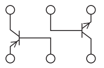
功率双极晶体管

Package	Application	Product No. Part No.	Grade Code General	Grade Code Automotive	Packing code	Polarity (ch)	P_D*1 (W)	V_{CEO} (V)	I_C (A)	h_{FE}	Automotive Grade AEC-Q101
 TO-252 DPAK (TO-252)	Driver	2SAR572D3	*	–	TL1	PNP	10	–30	–5	200 to 500	–
			–	FRA	TL		10	–30	–5	200 to 500	YES
		2SAR582D3	*	–	TL1		10	–30	–10	200 to 500	–
			–	FRA	TL		10	–30	–10	200 to 500	YES
		2SAR573D3	*	–	TL1		10	–50	–3	180 to 450	–
			–	FRA	TL		10	–50	–3	180 to 450	YES
		2SAR583D3	*	–	TL1		10	–50	–7	180 to 450	–
			–	FRA	TL		10	–50	–7	180 to 450	YES
		2SAR574D3	*	–	TL1		10	–80	–2	120 to 390	–
			–	FRA	TL		10	–80	–2	120 to 390	YES
		2SAR586D3	*	–	TL1		10	–80	–5	120 to 390	–
			–	FRA	TL		10	–80	–5	120 to 390	YES
		2SAR587D3	*	–	TL1		10	–120	–3	120 to 390	–
			–	FRA	TL		10	–120	–3	120 to 390	YES
		2SCR572D3	*	–	TL1	NPN	10	30	5	200 to 500	–
			–	FRA	TL		10	30	5	200 to 500	YES
		2SCR582D3	*	–	TL1		10	30	10	200 to 500	–
			–	FRA	TL		10	30	10	200 to 500	YES
		2SCR573D3	*	–	TL1		10	50	3	180 to 450	–
			–	FRA	TL		10	50	3	180 to 450	YES
		2SCR583D3	*	–	TL1		10	50	7	180 to 450	–
			–	FRA	TL		10	50	7	180 to 450	YES
		2SCR574D3	*	–	TL1		10	80	2	120 to 390	–
			–	FRA	TL		10	80	2	120 to 390	YES
		2SCR586D3	*	–	TL1		10	80	5	120 to 390	–
			–	FRA	TL		10	80	5	120 to 390	YES
		2SCR587D3	*	–	TL1		10	120	3	120 to 390	–
			–	FRA	TL		10	120	3	120 to 390	YES
 TO-263AB (LPTL)	Driver	2SAR586J	G	–	TLL	PNP	40	–80	–5	120 to 390	–
			–	FRG	TLL		40	–80	–5	120 to 390	YES
		2SCR586J	G	–	TLL	NPN	40	80	5	120 to 390	–
			–	FRG	TLL		40	80	5	120 to 390	YES

注1：*一般产品的产品性能代码为空白。
注2：*1 T_C=25℃
注3：(　)内表示ROHM封装。

复合双极晶体管

一般放大用 复合双极晶体管一览表

Configuration	Package / Item / Application	Equivalent Circuit Diagram (TOP View)	SOT-553/SOT-563 (EMT5/EMT6) 1616 size	SOT-353/SOT-363 (UMT5/UMT6) 2021 size	SOT-25/SOT-457 (SMT5/SMT6) 2928 size	Equivalent Element Transistors	V_{CEO} (V)	I_C (A)	h_{FE}
									
			Part No.						
PNP×2	Pre Amplifier		**EMT51**			2SAR522EB×2	–20	–0.2	120 to 560
			EMT52			2SAR523EB×2	–50	–0.1	120 to 560
			EMT1	**UMT1N**	**IMT1A**	2SA1037AK×2	–50	–0.15	120 to 560
			EMT18	**UMT18N**	**IMT18**	2SA2018×2	–12	–0.5	270 to 680
NPN×2	Pre Amplifier		**EMX51**			2SCR522EB×2	20	0.2	120 to 560
			EMX52			2SCR523EB×2	50	0.1	120 to 560
			EMX1	**UMX1N**	**IMX1**	2SC2412K×2	50	0.15	120 to 560
			EMX26			2SD2654×2	50	0.15	820 to 2,700
			EMX18	**UMX18N**		2SC5585×2	12	0.5	270 to 680
					IMX25	2SD2704K×2	20	0.3	820 to 2,700
PNP + NPN	Pre Amplifier		**EMY1**	**UMY1N**	**FMY1A**	2SA1037AK	–50	–0.15	120 to 560
						2SC2412K	50	0.15	120 to 560
			**EMZ51**			2SAR522EB	–20	–0.2	120 to 560
						2SCR522EB	20	0.2	120 to 560
			EMZ52			2SAR523EB	–50	–0.1	120 to 560
						2SCR523EB	50	0.1	120 to 560
			EMZ1	**UMZ1N**	**IMZ1A**	2SA1037AK	–50	–0.15	120 to 560
						2SC2412K	50	0.15	120 to 560
			EMZ7			2SA2018	–12	–0.5	270 to 680
						2SC5585	12	0.5	270 to 680
			EMZ8			2SA2018	–12	–0.5	270 to 680
						2SC2412K	50	0.15	120 to 560

注1：关于引脚配置，请参照规格说明书。
注2：(　)内表示ROHM封装。

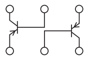
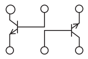
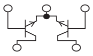
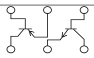
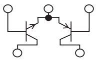
复合双极晶体管

一般放大用 复合双极晶体管

Package	Configuration	Application	Product No.				Equivalent Element Transistors	V_{CEO} (V)	I_C (A)	h_{FE}	Automotive Grade AEC-Q101
			Part No.	Grade Code		Packing code					
				General	Automotive						
 SOT-553 (EMT5) 1616 size	PNP+NPN	Pre Amplifier	**EMY1**	*	–	T2R	2SA1037AK	–50	–0.15	120 to 560	–
					–	T2R	2SC2412K	50	0.15	120 to 560	
 SOT-563 (EMT6) 1616 size	PNP×2	Pre Amplifier	**EMT51**	*	–	T2R	2SAR522EB×2	–20	–0.2	120 to 560	–
			EMT52		–	T2R	2SAR523EB×2	–50	–0.1	120 to 560	–
			EMT1		–	T2R	2SA1037AK×2	–50	–0.15	120 to 560	–
			EMT18		–	T2R	2SA2018×2	–12	–0.5	270 to 680	–
	NPN×2		**EMX51**		–	T2R	2SCR522EB×2	20	0.2	120 to 560	–
			EMX52		–	T2R	2SCR523EB×2	50	0.1	120 to 560	–
			EMX1		–	T2R	2SC2412K×2	50	0.15	120 to 560	–
			EMX26		–	T2R	2SD2654×2	50	0.15	820 to 2,700	–
			EMX18		–	T2R	2SC5585×2	12	0.5	270 to 680	–
	PNP+NPN		**EMZ51**		–	T2R	2SAR522EB	–20	–0.2	120 to 560	–
							2SCR522EB	20	0.2	120 to 560	
			EMZ52		–	T2R	2SAR523EB	–50	–0.1	120 to 560	–
							2SCR523EB	50	0.1	120 to 560	
			EMZ1		–	T2R	2SA1037AK	–50	–0.15	120 to 560	–
							2SC2412K	50	0.15	120 to 560	
			EMZ7		–	T2R	2SA2018	–12	–0.5	270 to 680	–
							2SC5585	12	0.5	270 to 680	
			EMZ8		–	T2R	2SA2018	–12	–0.5	270 to 680	–
							2SC2412K	50	0.15	120 to 560	
 SOT-353 (UMT5) 2021 size	PNP+NPN	Pre Amplifier	**UMY1N**	*	–	TR	2SA1037AK	–50	–0.15	120 to 560	–
							2SC2412K	50	0.15	120 to 560	
 SOT-363 (UMT6) 2021 size	PNP×2	Pre Amplifier	**UMT18N**	*	–	TR	2SA2018×2	–12	–0.5	270 to 680	–
			UMT1N		FHA	TN	2SA1037AK×2	–50	–0.15	120 to 560	YES
	NPN×2		**UMX18N**		–	TN	2SC5585×2	12	0.5	270 to 680	–
			UMX1N		FHA	TN	2SC2412K×2	50	0.15	120 to 560	YES
	PNP+NPN		**UMZ1N**		FHA	TR	2SA1037AK	–50	–0.15	120 to 560	YES
							2SC2412K	50	0.15	120 to 560	
 SOT-25 (SMT5) 2928 size	PNP+NPN	Pre Amplifier	**FMY1A**	*	–	T148	2SA1037AK	–50	–0.15	120 to 560	YES
							2SC2412K	50	0.15	120 to 560	
 SOT-457 (SMT6) 2928 size	PNP×2	Pre Amplifier	**IMT1A**	*	–	T110	2SA1037AK×2	–50	–0.15	120 to 560	–
			IMT18		–	T110	2SA2018×2	–12	–0.5	270 to 680	–
	NPN×2		**IMX1**		–	T110	2SC2412K×2	50	0.15	120 to 560	–
			IMX25		–	T110	2SD2704K×2	20	0.3	820 to 2,700	–
	PNP+NPN		**IMZ1A**		–	T108	2SA1037AK	–50	–0.15	120 to 560	–
							2SC2412K	50	0.15	120 to 560	

注1：*一般产品的产品性能代码为空白。
注2：关于引脚配置，请参照规格说明书。
注3：(　)内表示ROHM封装。

驱动器用 复合双极晶体管一览表

Configuration	Package Item Application	Equivalent Circuit Diagram (TOP View)	SOT-363T (TUMT6) 2021 size	SOT-25T/SOT-457T (TSMT5/TSMT6) 2928 size	Equivalent Element Transistors	V_{CEO} (V)	I_C (A)	h_{FE}
				 				
			Part No.					
PNP×2	Driver		**US6T8**	**QST8**	2SB1709×2	−12	−1.5	270 to 680
			US6T9	**QST9**	2SB1710×2	−30	−1	270 to 680
NPN×2	Driver		**US6X7**	**QSX7**	2SD2674×2	12	1.5	270 to 680
			US6X8	**QSX8**	2SD2675×2	30	1	270 to 680
	DC-DC Converter			**QS5W1**	Exclusive Chip	30	3	200 to 500
				QS5W2	2SCR533P×2	50	3	180 to 450
PNP + NPN	Pre Amplifier			**QS6Z5**	2SAR513P 2SCR513P	−50 50	−1 1	180 to 450 180 to 450
	DC-DC Converter			**QSZ2**	2SB1695 2SD2657	−30 30	−1.5 1.5	270 to 680 270 to 680
				QSZ4	2SB1706 2SD2671	−30 30	−2 2	270 to 680 270 to 680
				QS5Y1	Exclusive Chip	−30 30	−3 3	200 to 500 200 to 500
				QS5Y2	2SAR533P 2SCR533P	−50 50	−3 3	180 to 450 180 to 450

注1：关于引脚配置，请参照规格说明书。
注2：(　)内表示ROHM封装。

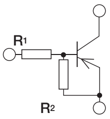
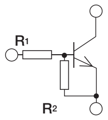
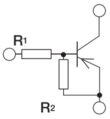
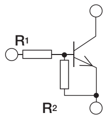
驱动器用 复合双极晶体管

Package	Configuration	Application	Product No.				Equivalent Element Transistors	V_{CEO} (V)	I_C (A)	h_{FE}
			Part No.	Grade Code		Packing code				
				General	Automotive					
 SOT-363T (TUMT6) 2021 size	PNP×2	Driver	**US6T8**	*	–	TR	2SB1709×2	−12	−1.5	270 to 680
			US6T9	*	–	TR	2SB1710×2	−30	−1	270 to 680
	NPN×2		**US6X7**	*	–	TR	2SD2674×2	12	1.5	270 to 680
			US6X8	*	–	TR	2SD2675×2	30	1	270 to 680
 SOT-25T (TSMT5) 2928 size	NPN×2	DC-DC Converter	**QS5W1**	*	–	TR	Exclusive Chip	30	3	200 to 500
			QS5W2	*	–	TR	2SCR533P×2	50	3	180 to 450
	PNP+NPN		**QSZ2**	*	–	TR	2SB1695 2SD2657	−30 30	−1.5 1.5	270 to 680 270 to 680
			QSZ4	*	–	TR	2SB1706 2SD2671	−30 30	−2 2	270 to 680 270 to 680
			QS5Y1	*	–	TR	Exclusive Chip	−30 30	−3 3	200 to 500 200 to 500
			QS5Y2	*	–	TR	2SAR533P 2SCR533P	−50 50	−3 3	180 to 450 180 to 450
 SOT-457T (TSMT6) 2928 size	PNP×2	Driver	**QST8**	*	–	TR	2SB1709×2	−12	−1.5	270 to 680
			QST9	*	–	TR	2SB1710×2	−30	−1	270 to 680
	NPN×2		**QSX7**	*	–	TR	2SD2674×2	12	1.5	270 to 680
			QSX8	*	–	TR	2SD2675×2	30	1	270 to 680
	PNP+NPN	Pre Amplifier	**QS6Z5**	*	–	TR	2SAR513P 2SCR513P	−50 50	−1 1	180 to 450 180 to 450

注1：*一般产品的产品性能代码为空白。
注2：关于引脚配置，请参照规格说明书。
注3：(　)内表示ROHM封装。

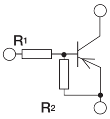
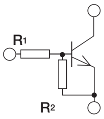
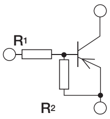
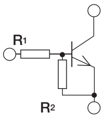
数字晶体管

100mA 数字晶体管(含车载适用品)

Package	Polarity	Specifications	Part No.		Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})	Automotive Grade AEC-Q101
			General	Automotive							
 SOT-723 (VMT3) 1212 size P_D=150mW*	PNP 	$R_1=R_2$	DTA123EM	DTA123EMFHA	T2L	2.2	2.2	−50	−0.1	20 or more	YES
			DTA143EM	DTA143EMFHA	T2L	4.7	4.7	−50	−0.1	30 or more	YES
			DTA114EM	DTA114EMFHA	T2L	10	10	−50	−0.05	30 or more	YES
			DTA124EM	DTA124EMFHA	T2L	22	22	−50	−0.03	56 or more	YES
			DTA144EM	DTA144EMFHA	T2L	47	47	−50	−0.03	68 or more	YES
			DTA115EM	DTA115EMFHA	T2L	100	100	−50	−0.02	82 or more	YES
		$R_1 \neq R_2$	DTA113ZM	DTA113ZMFHA	T2L	1	10	−50	−0.1	33 or more	YES
			DTA123YM	DTA123YMFHA	T2L	2.2	10	−50	−0.1	33 or more	YES
			DTA123JM	DTA123JMFHA	T2L	2.2	47	−50	−0.1	80 or more	YES
			DTA143XM	DTA143XMFHA	T2L	4.7	10	−50	−0.1	30 or more	YES
			DTA143ZM	DTA143ZMFHA	T2L	4.7	47	−50	−0.1	80 or more	YES
			DTA114YM	DTA114YMFHA	T2L	10	47	−50	−0.07	68 or more	YES
			DTA124XM	DTA124XMFHA	T2L	22	47	−50	−0.05	68 or more	YES
		R_1 Alone	DTA143TM	DTA143TMFHA	T2L	4.7	—	−50	−0.1	100 to 600	YES
			DTA114TM	DTA114TMFHA	T2L	10	—	−50	−0.1	100 to 600	YES
	NPN 	$R_1=R_2$	DTC123EM	DTC123EMFHA	T2L	2.2	2.2	50	0.1	20 or more	YES
			DTC143EM	DTC143EMFHA	T2L	4.7	4.7	50	0.1	30 or more	YES
			DTC114EM	DTC114EMFHA	T2L	10	10	50	0.05	30 or more	YES
			DTC124EM	DTC124EMFHA	T2L	22	22	50	0.03	56 or more	YES
			DTC144EM	DTC144EMFHA	T2L	47	47	50	0.03	68 or more	YES
			DTC115EM	DTC115EMFHA	T2L	100	100	50	0.02	82 or more	YES
		$R_1 \neq R_2$	DTC113ZM	DTC113ZMFHA	T2L	1	10	50	0.1	33 or more	YES
			DTC123YM	DTC123YMFHA	T2L	2.2	10	50	0.1	33 or more	YES
			DTC123JM	DTC123JMFHA	T2L	2.2	47	50	0.1	80 or more	YES
			DTC143XM	DTC143XMFHA	T2L	4.7	10	50	0.1	30 or more	YES
			DTC143ZM	DTC143ZMFHA	T2L	4.7	47	50	0.1	80 or more	YES
			DTC114YM	DTC114YMFHA	T2L	10	47	50	0.07	68 or more	YES
			DTC124XM	DTC124XMFHA	T2L	22	47	50	0.05	68 or more	YES
		R_1 Alone	DTC143TM	DTC143TMFHA	T2L	4.7	—	50	0.1	100 to 600	YES
			DTC114TM	DTC114TMFHA	T2L	10	—	50	0.1	100 to 600	YES
			DTC144TM	DTC144TMFHA	T2L	47	—	50	0.1	100 to 600	YES
 SOT-416FL (EMT3F) 1616 size P_D=150mW*	PNP 	$R_1=R_2$	DTA123EEB	—	TL	2.2	2.2	−50	−0.1	20 or more	—
			DTA143EEB	—	TL	4.7	4.7	−50	−0.1	30 or more	—
			DTA114EEB	—	TL	10	10	−50	−0.05	30 or more	—
			DTA124EEB	—	TL	22	22	−50	−0.03	56 or more	—
			DTA144EEB	—	TL	47	47	−50	−0.03	68 or more	—
			DTA115EEB	—	TL	100	100	−50	−0.02	82 or more	—
		$R_1 \neq R_2$	DTA113ZEB	—	TL	1	10	−50	−0.1	33 or more	—
			DTA123YEB	—	TL	2.2	10	−50	−0.1	33 or more	—
			DTA123JEB	—	TL	2.2	47	−50	−0.1	80 or more	—
			DTA143XEB	—	TL	4.7	10	−50	−0.1	30 or more	—
			DTA143ZEB	—	TL	4.7	47	−50	−0.1	80 or more	—
			DTA114YEB	—	TL	10	47	−50	−0.07	68 or more	—
			DTA124XEB	—	TL	22	47	−50	−0.05	68 or more	—
		R_1 Alone	DTA143TEB	—	TL	4.7	—	−50	−0.1	100 to 600	—
			DTA114TEB	—	TL	10	—	−50	−0.1	100 to 600	—
	NPN 	$R_1=R_2$	DTC123EEB	—	TL	2.2	2.2	50	0.1	20 or more	—
			DTC143EEB	—	TL	4.7	4.7	50	0.1	30 or more	—
			DTC114EEB	—	TL	10	10	50	0.05	30 or more	—
			DTC124EEB	—	TL	22	22	50	0.03	56 or more	—
			DTC144EEB	—	TL	47	47	50	0.03	68 or more	—
			DTC115EEB	—	TL	100	100	50	0.02	82 or more	—
		$R_1 \neq R_2$	DTC113ZEB	—	TL	1	10	50	0.1	33 or more	—
			DTC123YEB	—	TL	2.2	10	50	0.1	33 or more	—
			DTC123JEB	—	TL	2.2	47	50	0.1	80 or more	—
			DTC143XEB	—	TL	4.7	10	50	0.1	30 or more	—
			DTC143ZEB	—	TL	4.7	47	50	0.1	80 or more	—
			DTC114YEB	—	TL	10	47	50	0.07	68 or more	—
			DTC124XEB	—	TL	22	47	50	0.05	68 or more	—
		R_1 Alone	DTC143TEB	—	TL	4.7	—	50	0.1	100 to 600	—
			DTC114TEB	—	TL	10	—	50	0.1	100 to 600	—

注1：*为安装于推荐焊盘时。
注2：(　)内表示ROHM封装。

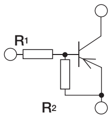
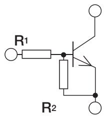
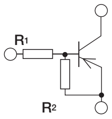
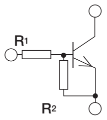
100mA 数字晶体管(含车载适用品)

Package	Polarity	Specifications	Part No.		Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})	Automotive Grade AEC-Q101
			General	Automotive							
 SOT-416 (EMT3) 1616 size P_D=150mW*	PNP 	R_1=R_2	DTA123EE3	DTA123EE3HZG	TL	2.2	2.2	−50	−0.1	20 or more	YES
			DTA143EE3	DTA143EE3HZG	TL	4.7	4.7	−50	−0.1	30 or more	YES
			DTA114EE3	DTA114EE3HZG	TL	10	10	−50	−0.05	30 or more	YES
			DTA124EE3	DTA124EE3HZG	TL	22	22	−50	−0.03	56 or more	YES
			DTA144EE3	DTA144EE3HZG	TL	47	47	−50	−0.03	68 or more	YES
			DTA115EE3	DTA115EE3HZG	TL	100	100	−50	−0.02	82 or more	YES
		R_1≠R_2	DTA113ZE3	DTA113ZE3HZG	TL	1	10	−50	−0.1	33 or more	YES
			DTA123YE3	DTA123YE3HZG	TL	2.2	10	−50	−0.1	33 or more	YES
			DTA123JE3	DTA123JE3HZG	TL	2.2	47	−50	−0.1	80 or more	YES
			DTA143XE3	DTA143XE3HZG	TL	4.7	10	−50	−0.1	30 or more	YES
			DTA143ZE3	DTA143ZE3HZG	TL	4.7	47	−50	−0.1	80 or more	YES
			DTA114YE3	DTA114YE3HZG	TL	10	47	−50	−0.07	68 or more	YES
			DTA124XE3	DTA124XE3HZG	TL	22	47	−50	−0.05	68 or more	YES
		R_1 Alone	DTA143TE3	DTA143TE3HZG	TL	4.7	—	−50	−0.1	100 to 600	YES
			DTA114TE3	DTA114TE3HZG	TL	10	—	−50	−0.1	100 to 600	YES
	NPN 	R_1=R_2	DTC123EE3	DTC123EE3HZG	TL	2.2	2.2	50	0.1	20 or more	YES
			DTC143EE3	DTC143EE3HZG	TL	4.7	4.7	50	0.1	30 or more	YES
			DTC114EE3	DTC114EE3HZG	TL	10	10	50	0.05	30 or more	YES
			DTC124EE3	DTC124EE3HZG	TL	22	22	50	0.03	56 or more	YES
			DTC144EE3	DTC144EE3HZG	TL	47	47	50	0.03	68 or more	YES
			DTC115EE3	DTC115EE3HZG	TL	100	100	50	0.02	82 or more	YES
		R_1≠R_2	DTC113ZE3	DTC113ZE3HZG	TL	1	10	50	0.1	33 or more	YES
			DTC123YE3	DTC123YE3HZG	TL	2.2	10	50	0.1	33 or more	YES
			DTC123JE3	DTC123JE3HZG	TL	2.2	47	50	0.1	80 or more	YES
			DTC143XE3	DTC143XE3HZG	TL	4.7	10	50	0.1	30 or more	YES
			DTC143ZE3	DTC143ZE3HZG	TL	4.7	47	50	0.1	80 or more	YES
			DTC114YE3	DTC114YE3HZG	TL	10	47	50	0.07	68 or more	YES
			DTC124XE3	DTC124XE3HZG	TL	22	47	50	0.05	68 or more	YES
		R_1 Alone	DTC143TE3	DTC143TE3HZG	TL	4.7	—	50	0.1	100 to 600	YES
			DTC114TE3	DTC114TE3HZG	TL	10	—	50	0.1	100 to 600	YES
 SOT-323FL (UMT3F) 2021 size P_D=200mW*	PNP 	R_1=R_2	DTA143EUB	—	TL	4.7	4.7	−50	−0.1	30 or more	—
			DTA114EUB	—	TL	10	10	−50	−0.05	30 or more	—
			DTA124EUB	—	TL	22	22	−50	−0.03	56 or more	—
			DTA144EUB	—	TL	47	47	−50	−0.03	68 or more	—
			DTA115EUB	—	TL	100	100	−50	−0.02	82 or more	—
		R_1≠R_2	DTA123JUB	—	TL	2.2	47	−50	−0.1	80 or more	—
			DTA143XUB	—	TL	4.7	10	−50	−0.1	30 or more	—
			DTA143ZUB	—	TL	4.7	47	−50	−0.1	80 or more	—
			DTA114YUB	—	TL	10	47	−50	−0.07	68 or more	—
		R_1 Alone	DTA143TUB	—	TL	4.7	—	−50	−0.1	100 to 600	—
			DTA114TUB	—	TL	10	—	−50	−0.1	100 to 600	—
	NPN 	R_1=R_2	DTC143EUB	—	TL	4.7	4.7	50	0.1	30 or more	—
			DTC114EUB	—	TL	10	10	50	0.05	30 or more	—
			DTC124EUB	—	TL	22	22	50	0.03	56 or more	—
			DTC144EUB	—	TL	47	47	50	0.03	68 or more	—
			DTC115EUB	—	TL	100	100	50	0.02	82 or more	—
		R_1≠R_2	DTC123JUB	—	TL	2.2	47	50	0.1	80 or more	—
			DTC143XUB	—	TL	4.7	10	50	0.1	30 or more	—
			DTC143ZUB	—	TL	4.7	47	50	0.1	80 or more	—
			DTC114YUB	—	TL	10	47	50	0.07	68 or more	—
		R_1 Alone	DTC143TUB	—	TL	4.7	—	50	0.1	100 to 600	—
			DTC114TUB	—	TL	10	—	50	0.1	100 to 600	—

注1：*为安装于推荐焊盘时。
注2：( )内表示ROHM封装。

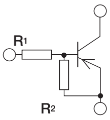
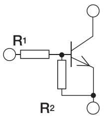
数字晶体管

100mA 数字晶体管(含车载适用品)

Package	Polarity	Specifications	Part No.		Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})	Automotive Grade AEC-Q101
			General	Automotive							
 SOT-323 (UMT3) 2021 size P_D=200mW*	PNP 	$R_1 \neq R_2$	DTA114WUA	—	T106	10	4.7	−50	−0.1	24 or more	—
			DTA144WUA	—	T106	47	22	−50	−0.03	56 or more	—
		R_1 Alone	DTA124TUA	—	T106	22	—	−50	−0.1	100 to 600	—
			DTA144TUA	—	T106	47	—	−50	−0.1	100 to 600	—
			DTA115TUA	—	T106	100	—	−50	−0.1	100 to 600	—
		R_2 Alone	DTA114GUA	—	T106	—	10	−50	−0.1	30 or more	—
			DTA144GUA	—	T106	—	47	−50	−0.1	68 or more	—
			DTA115GUA	—	T106	—	100	−50	−0.1	82 or more	—
	NPN 	$R_1 \neq R_2$	DTC114WUA	—	T106	10	4.7	50	0.1	24 or more	—
			DTC144WUA	—	T106	47	22	50	0.03	56 or more	—
		R_1 Alone	DTC124TUA	—	T106	22	—	50	0.1	100 to 600	—
			DTC144TUA	—	T106	47	—	50	0.1	100 to 600	—
			DTC115TUA	—	T106	100	—	50	0.1	100 to 600	—
		R_2 Alone	DTC124GUA	—	T106	—	22	50	0.1	56 or more	—
			DTC144GUA	—	T106	—	47	50	0.1	68 or more	—
	PNP 	$R_1 = R_2$	DTA123EU3	DTA123EU3HZG	T106	2.2	2.2	−50	−0.1	20 or more	YES
			DTA143EU3	DTA143EU3HZG	T106	4.7	4.7	−50	−0.1	30 or more	YES
			DTA114EU3	DTA114EU3HZG	T106	10	10	−50	−0.05	30 or more	YES
			DTA124EU3	DTA124EU3HZG	T106	22	22	−50	−0.03	56 or more	YES
			DTA144EU3	DTA144EU3HZG	T106	47	47	−50	−0.03	68 or more	YES
			DTA115EU3	—	T106	100	100	−50	−0.02	82 or more	—
		$R_1 \neq R_2$	DTA113ZU3	DTA113ZU3HZG	T106	1	10	−50	−0.1	33 or more	YES
			DTA123YU3	DTA123YU3HZG	T106	2.2	10	−50	−0.1	33 or more	YES
			DTA123JU3	DTA123JU3HZG	T106	2.2	47	−50	−0.1	80 or more	YES
			DTA143XU3	DTA143XU3HZG	T106	4.7	10	−50	−0.1	30 or more	YES
			DTA143ZU3	DTA143ZU3HZG	T106	4.7	47	−50	−0.1	80 or more	YES
			DTA114YU3	DTA114YU3HZG	T106	10	47	−50	−0.07	68 or more	YES
			DTA124XU3	DTA124XU3HZG	T106	22	47	−50	−0.05	68 or more	YES
		R_1 Alone	DTA143TU3	DTA143TU3HZG	T106	4.7	—	−50	−0.1	100 to 600	YES
			DTA114TU3	DTA114TU3HZG	T106	10	—	−50	−0.1	100 to 600	YES
	NPN 	$R_1 = R_2$	DTC123EU3	DTC123EU3HZG	T106	2.2	2.2	50	0.1	20 or more	YES
			DTC143EU3	DTC143EU3HZG	T106	4.7	4.7	50	0.1	30 or more	YES
			DTC114EU3	DTC114EU3HZG	T106	10	10	50	0.05	30 or more	YES
			DTC124EU3	DTC124EU3HZG	T106	22	22	50	0.03	56 or more	YES
			DTC144EU3	DTC144EU3HZG	T106	47	47	50	0.03	68 or more	YES
			DTC115EU3	—	T106	100	100	50	0.02	82 or more	—
		$R_1 \neq R_2$	DTC113ZU3	DTC113ZU3HZG	T106	1	10	50	0.1	33 or more	YES
			DTC123YU3	DTC123YU3HZG	T106	2.2	10	50	0.1	33 or more	YES
			DTC123JU3	DTC123JU3HZG	T106	2.2	47	50	0.1	80 or more	YES
			DTC143XU3	DTC143XU3HZG	T106	4.7	10	50	0.1	30 or more	YES
			DTC143ZU3	DTC143ZU3HZG	T106	4.7	47	50	0.1	80 or more	YES
			DTC114YU3	DTC114YU3HZG	T106	10	47	50	0.07	68 or more	YES
			DTC124XU3	DTC124XU3HZG	T106	22	47	50	0.05	68 or more	YES
		R_1 Alone	DTC143TU3	DTC143TU3HZG	T106	4.7	—	50	0.1	100 to 600	YES
			DTC114TU3	DTC114TU3HZG	T106	10	—	50	0.1	100 to 600	YES
		R_2 Alone	DTC114GU3	—	T106	—	10	50	0.1	30 or more	—
			DTC115GU3	—	T106	—	100	50	0.1	82 or more	—

注1：*为安装于推荐焊盘时。
注2：(　)内表示ROHM封装。

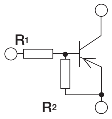
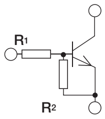
100mA 数字晶体管(含车载适用品)

Package	Polarity	Specifications	Part No.		Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})	Automotive Grade AEC-Q101
			General	Automotive							
 TO-236AB SOT-23 (SST3) 2924 size P_D=200mW*	PNP 	R_1=R_2	DTA123ECA	DTA123ECAHZG	T116	2.2	2.2	−50	−0.1	20 or more	YES
			DTA143ECA	DTA143ECAHZG	T116	4.7	4.7	−50	−0.1	30 or more	YES
			DTA114ECA	DTA114ECAHZG	T116	10	10	−50	−0.05	30 or more	YES
			DTA124ECA	DTA124ECAHZG	T116	22	22	−50	−0.03	56 or more	YES
			DTA144ECA	DTA144ECAHZG	T116	47	47	−50	−0.03	68 or more	YES
			DTA115ECA	—	T116	100	100	−50	−0.02	82 or more	—
		R_1≠R_2	DTA113ZCA	DTA113ZCAHZG	T116	1	10	−50	−0.1	33 or more	YES
			DTA123YCA	DTA123YCAHZG	T116	2.2	10	−50	−0.1	33 or more	YES
			DTA123JCA	DTA123JCAHZG	T116	2.2	47	−50	−0.1	80 or more	YES
			DTA143XCA	DTA143XCAHZG	T116	4.7	10	−50	−0.1	30 or more	YES
			DTA143ZCA	DTA143ZCAHZG	T116	4.7	47	−50	−0.1	80 or more	YES
			DTA114YCA	DTA114YCAHZG	T116	10	47	−50	−0.07	68 or more	YES
			DTA124XCA	DTA124XCAHZG	T116	22	47	−50	−0.05	68 or more	YES
			DTA144VCA	DTA144VCAHZG	T116	47	10	−50	−0.03	33 or more	YES
			DTA144WCA	DTA144WCAHZG	T116	47	22	−50	−0.03	56 or more	YES
		R_1 Alone	DTA123TCA	DTA123TCAHZG	T116	2.2	—	−50	−0.1	100 to 600	YES
			DTA143TCA	DTA143TCAHZG	T116	4.7	—	−50	−0.1	100 to 600	YES
			DTA114TCA	DTA114TCAHZG	T116	10	—	−50	−0.1	100 to 600	YES
			DTA124TCA	DTA124TCAHZG	T116	22	—	−50	−0.1	100 to 600	YES
			DTA144TCA	DTA144TCAHZG	T116	47	—	−50	−0.1	100 to 600	YES
			DTA115TCA	DTA115TCAHZG	T116	100	—	−50	−0.1	100 to 600	YES
	NPN 	R_1=R_2	DTC123ECA	DTC123ECAHZG	T116	2.2	2.2	50	0.1	20 or more	YES
			DTC143ECA	DTC143ECAHZG	T116	4.7	4.7	50	0.1	30 or more	YES
			DTC114ECA	DTC114ECAHZG	T116	10	10	50	0.05	30 or more	YES
			DTC124ECA	DTC124ECAHZG	T116	22	22	50	0.03	56 or more	YES
			DTC144ECA	DTC144ECAHZG	T116	47	47	50	0.03	68 or more	YES
			DTC115ECA	—	T116	100	100	50	0.02	82 or more	—
		R_1≠R_2	DTC113ZCA	DTC113ZCAHZG	T116	1	10	50	0.1	33 or more	YES
			DTC123YCA	DTC123YCAHZG	T116	2.2	10	50	0.1	33 or more	YES
			DTC123JCA	DTC123JCAHZG	T116	2.2	47	50	0.1	80 or more	YES
			DTC143XCA	DTC143XCAHZG	T116	4.7	10	50	0.1	30 or more	YES
			DTC143ZCA	DTC143ZCAHZG	T116	4.7	47	50	0.1	80 or more	YES
			DTC114YCA	DTC114YCAHZG	T116	10	47	50	0.07	68 or more	YES
			DTC124XCA	DTC124XCAHZG	T116	22	47	50	0.05	68 or more	YES
			DTC144VCA	DTC144VCAHZG	T116	47	10	50	0.03	33 or more	YES
			DTC144WCA	DTC144WCAHZG	T116	47	22	50	0.03	56 or more	YES
		R_1 Alone	DTC123TCA	DTC123TCAHZG	T116	2.2	—	50	0.1	100 to 600	YES
			DTC143TCA	DTC143TCAHZG	T116	4.7	—	50	0.1	100 to 600	YES
			DTC114TCA	DTC114TCAHZG	T116	10	—	50	0.1	100 to 600	YES
			DTC124TCA	DTC124TCAHZG	T116	22	—	50	0.1	100 to 600	YES
			DTC144TCA	DTC144TCAHZG	T116	47	—	50	0.1	100 to 600	YES
			DTC115TCA	DTC115TCAHZG	T116	100	—	50	0.1	100 to 600	YES

注1：*为安装于推荐焊盘时。
注2：(　)内表示ROHM封装。

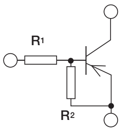
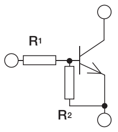
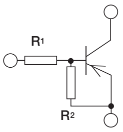
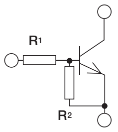
数字晶体管

100mA 数字晶体管(一般产品)

Package	Polarity	Specifications	Part No.	Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})	Automotive Grade AEC-Q101
			General							
 TO-236 SOT-346 (SMT3) 2928 size P_D=200mW*	PNP 	R_1=R_2	DTA123EKA	T146	2.2	2.2	−50	−0.1	20 or more	YES
			DTA143EKA	T146	4.7	4.7	−50	−0.1	30 or more	YES
			DTA114EKA	T146	10	10	−50	−0.05	30 or more	YES
			DTA124EKA	T146	22	22	−50	−0.03	56 or more	YES
			DTA144EKA	T146	47	47	−50	−0.03	68 or more	YES
			DTA115EKA	T146	100	100	−50	−0.02	82 or more	YES
		R_1≠R_2	DTA113ZKA	T146	1	10	−50	−0.1	33 or more	YES
			DTA123YKA	T146	2.2	10	−50	−0.1	33 or more	YES
			DTA123JKA	T146	2.2	47	−50	−0.1	80 or more	YES
			DTA143XKA	T146	4.7	10	−50	−0.1	30 or more	YES
			DTA143ZKA	T146	4.7	47	−50	−0.1	80 or more	YES
			DTA114YKA	T146	10	47	−50	−0.07	68 or more	YES
			DTA124XKA	T146	22	47	−50	−0.05	68 or more	YES
		R_1 Alone	DTA143TKA	T146	4.7	—	−50	−0.1	100 to 600	YES
			DTA114TKA	T146	10	—	−50	−0.1	100 to 600	YES
	NPN 	R_1=R_2	DTC123EKA	T146	2.2	2.2	50	0.1	20 or more	YES
			DTC143EKA	T146	4.7	4.7	50	0.1	30 or more	YES
			DTC114EKA	T146	10	10	50	0.05	30 or more	YES
			DTC124EKA	T146	22	22	50	0.03	56 or more	YES
			DTC144EKA	T146	47	47	50	0.03	68 or more	YES
			DTC115EKA	T146	100	100	50	0.02	82 or more	YES
		R_1≠R_2	DTC113ZKA	T146	1	10	50	0.1	33 or more	YES
			DTC123YKA	T146	2.2	10	50	0.1	33 or more	YES
			DTC123JKA	T146	2.2	47	50	0.1	80 or more	YES
			DTC143XKA	T146	4.7	10	50	0.1	30 or more	YES
			DTC143ZKA	T146	4.7	47	50	0.1	80 or more	YES
			DTC114YKA	T146	10	47	50	0.07	68 or more	YES
			DTC124XKA	T146	22	47	50	0.05	68 or more	YES
		R_1 Alone	DTC143TKA	T146	4.7	—	50	0.1	100 to 600	YES
			DTC114TKA	T146	10	—	50	0.1	100 to 600	YES

注1：*为安装于推荐焊盘时。
注2：(　)内表示ROHM封装。

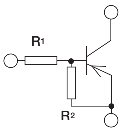
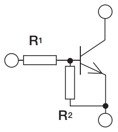
100mA 数字晶体管(一般产品)

Package	Polarity	Specifications	Part No.	Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})
 SOT-723 (VMT3) 1212 size P_D=150mW*	PNP  	R_1=R_2	**DTA023EM**	T2L	2.2	2.2	–50	–0.1	20 or more
			DTA043EM	T2L	4.7	4.7	–50	–0.1	20 or more
			DTA014EM	T2L	10	10	–50	–0.05	35 or more
			DTA024EM	T2L	22	22	–50	–0.03	60 or more
			DTA044EM	T2L	47	47	–50	–0.03	80 or more
			DTA015EM	T2L	100	100	–50	–0.02	80 or more
		$R_1 \neq R_2$	**DTA013ZM**	T2L	1	10	–50	–0.1	30 or more
			DTA023YM	T2L	2.2	10	–50	–0.1	35 or more
			DTA023JM	T2L	2.2	47	–50	–0.1	80 or more
			DTA043XM	T2L	4.7	10	–50	–0.1	35 or more
			DTA043ZM	T2L	4.7	47	–50	–0.1	80 or more
			DTA014YM	T2L	10	47	–50	–0.07	80 or more
			DTA024XM	T2L	22	47	–50	–0.05	80 or more
		R_1 Alone	**DTA043TM**	T2L	4.7	—	–50	–0.1	100 to 600
			DTA014TM	T2L	10	—	–50	–0.1	100 to 600
			DTA044TM	T2L	47	—	–50	–0.06	100 to 600
			DTA015TM	T2L	100	—	–50	–0.1	100 to 600
	NPN  	R_1=R_2	**DTC023EM**	T2L	2.2	2.2	50	0.1	20 or more
			DTC043EM	T2L	4.7	4.7	50	0.1	20 or more
			DTC014EM	T2L	10	10	50	0.05	35 or more
			DTC024EM	T2L	22	22	50	0.03	60 or more
			DTC044EM	T2L	47	47	50	0.03	80 or more
			DTC015EM	T2L	100	100	50	0.02	80 or more
		$R_1 \neq R_2$	**DTC013ZM**	T2L	1	10	50	0.1	30 or more
			DTC023YM	T2L	2.2	10	50	0.1	35 or more
			DTC023JM	T2L	2.2	47	50	0.1	80 or more
			DTC043XM	T2L	4.7	10	50	0.1	35 or more
			DTC043ZM	T2L	4.7	47	50	0.1	80 or more
			DTC014YM	T2L	10	47	50	0.07	80 or more
			DTC024XM	T2L	22	47	50	0.05	80 or more
		R_1 Alone	**DTC043TM**	T2L	4.7	—	50	0.1	100 to 600
			DTC014TM	T2L	10	—	50	0.1	100 to 600
			DTC044TM	T2L	47	—	50	0.06	100 to 600
			DTC015TM	T2L	100	—	50	0.1	100 to 600
 SOT-416FL (EMT3F) 1616 size P_D=150mW*	PNP  	R_1=R_2	**DTA023EEB**	TL	2.2	2.2	–50	–0.1	20 or more
			DTA043EEB	TL	4.7	4.7	–50	–0.1	20 or more
			DTA014EEB	TL	10	10	–50	–0.05	35 or more
			DTA024EEB	TL	22	22	–50	–0.03	60 or more
			DTA044EEB	TL	47	47	–50	–0.03	80 or more
			DTA015EEB	TL	100	100	–50	–0.02	80 or more
		$R_1 \neq R_2$	**DTA013ZEB**	TL	1	10	–50	–0.1	30 or more
			DTA023YEB	TL	2.2	10	–50	–0.1	35 or more
			DTA023JEB	TL	2.2	47	–50	–0.1	80 or more
			DTA043XEB	TL	4.7	10	–50	–0.1	35 or more
			DTA043ZEB	TL	4.7	47	–50	–0.1	80 or more
			DTA014YEB	TL	10	47	–50	–0.07	80 or more
			DTA024XEB	TL	22	47	–50	–0.05	80 or more
		R_1 Alone	**DTA043TEB**	TL	4.7	—	–50	–0.1	100 to 600
			DTA014TEB	TL	10	—	–50	–0.1	100 to 600
			DTA044TEB	TL	47	—	–50	–0.06	100 to 600
			DTA015TEB	TL	100	—	–50	–0.1	100 to 600
	NPN  	R_1=R_2	**DTC023EEB**	TL	2.2	2.2	50	0.1	20 or more
			DTC043EEB	TL	4.7	4.7	50	0.1	20 or more
			DTC014EEB	TL	10	10	50	0.05	35 or more
			DTC024EEB	TL	22	22	50	0.03	60 or more
			DTC044EEB	TL	47	47	50	0.03	80 or more
			DTC015EEB	TL	100	100	50	0.02	80 or more
		$R_1 \neq R_2$	**DTC013ZEB**	TL	1	10	50	0.1	30 or more
			DTC023YEB	TL	2.2	10	50	0.1	35 or more
			DTC023JEB	TL	2.2	47	50	0.1	80 or more
			DTC043XEB	TL	4.7	10	50	0.1	35 or more
			DTC043ZEB	TL	4.7	47	50	0.1	80 or more
			DTC014YEB	TL	10	47	50	0.07	80 or more
			DTC024XEB	TL	22	47	50	0.05	80 or more
		R_1 Alone	**DTC043TEB**	TL	4.7	—	50	0.1	100 to 600
			DTC014TEB	TL	10	—	50	0.1	100 to 600
			DTC044TEB	TL	47	—	50	0.06	100 to 600
			DTC015TEB	TL	100	—	50	0.1	100 to 600

注1：*为安装于推荐焊盘时。
注2：( )内表示ROHM封装。

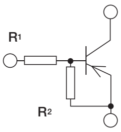
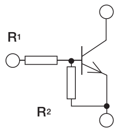
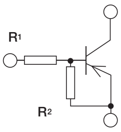
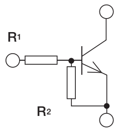
数字晶体管

100mA 数字晶体管(一般产品)

Package	Polarity	Specifications	Part No.	Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})
 SOT-323FL (UMT3F) 2021 size P_D=200mW*	PNP  	R_1=R_2	**DTA023EUB**	TL	2.2	2.2	−50	−0.1	20 or more
			DTA043EUB	TL	4.7	4.7	−50	−0.1	20 or more
			DTA014EUB	TL	10	10	−50	−0.05	35 or more
			DTA024EUB	TL	22	22	−50	−0.03	60 or more
			DTA044EUB	TL	47	47	−50	−0.03	80 or more
			DTA015EUB	TL	100	100	−50	−0.02	80 or more
		R_1≠R_2	**DTA013ZUB**	TL	1	10	−50	−0.1	30 or more
			DTA023YUB	TL	2.2	10	−50	−0.1	35 or more
			DTA023JUB	TL	2.2	47	−50	−0.1	80 or more
			DTA043XUB	TL	4.7	10	−50	−0.1	35 or more
			DTA043ZUB	TL	4.7	47	−50	−0.1	80 or more
			DTA014YUB	TL	10	47	−50	−0.07	80 or more
			DTA024XUB	TL	22	47	−50	−0.05	80 or more
		R_1 Alone	**DTA043TUB**	TL	4.7	–	−50	−0.1	100 to 600
			DTA014TUB	TL	10	–	−50	−0.1	100 to 600
			DTA044TUB	TL	47	–	−50	−0.06	100 to 600
			DTA015TUB	TL	100	–	−50	−0.1	100 to 600
	NPN  	R_1=R_2	**DTC023EUB**	TL	2.2	2.2	50	0.1	20 or more
			DTC043EUB	TL	4.7	4.7	50	0.1	20 or more
			DTC014EUB	TL	10	10	50	0.05	35 or more
			DTC024EUB	TL	22	22	50	0.03	60 or more
			DTC044EUB	TL	47	47	50	0.03	80 or more
			DTC015EUB	TL	100	100	50	0.02	80 or more
		R_1≠R_2	**DTC013ZUB**	TL	1	10	50	0.1	30 or more
			DTC023YUB	TL	2.2	10	50	0.1	35 or more
			DTC023JUB	TL	2.2	47	50	0.1	80 or more
			DTC043XUB	TL	4.7	10	50	0.1	35 or more
			DTC043ZUB	TL	4.7	47	50	0.1	80 or more
			DTC014YUB	TL	10	47	50	0.07	80 or more
			DTC024XUB	TL	22	47	50	0.05	80 or more
		R_1 Alone	**DTC043TUB**	TL	4.7	–	50	0.1	100 to 600
			DTC014TUB	TL	10	–	50	0.1	100 to 600
			DTC044TUB	TL	47	–	50	0.06	100 to 600
			DTC015TUB	TL	100	–	50	0.1	100 to 600

注1：*为安装于推荐焊盘时。
注2：(　)内表示ROHM封装。

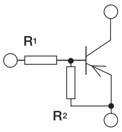
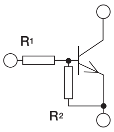
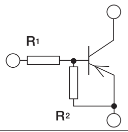
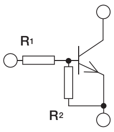
500mA 数字晶体管(含车载适用品)

Package	Polarity	Specifications	Part No.		Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})	Automotive Grade AEC-Q101
			General	Automotive							
 TO-236AB SOT-23 (SST3) 2924 size P_D=200mW*	PNP 	R_1=R_2	DTB113EC	DTB113ECHZG	T116	1	1	−50	−0.5	33 or more	YES
			DTB123EC	DTB123ECHZG	T116	2.2	2.2	−50	−0.5	39 or more	YES
			DTB143EC	DTB143ECHZG	T116	4.7	4.7	−50	−0.5	47 or more	YES
			DTB114EC	DTB114ECHZG	T116	10	10	−50	−0.5	56 or more	YES
		R_1≠R_2	DTB113ZC	DTB113ZCHZG	T116	1	10	−50	−0.5	56 or more	YES
			DTB123YC	DTB123YCHZG	T116	2.2	10	−50	−0.5	56 or more	YES
		R_1 Alone	DTB123TC	DTB123TCHZG	T116	2.2	—	−40	−0.5	100 to 600	YES
		R_2 Alone	DTB114GC	DTB114GCHZG	T116	—	10	−50	−0.5	56 or more	YES
	NPN 	R_1=R_2	DTD113EC	DTD113ECHZG	T116	1	1	50	0.5	33 or more	YES
			DTD123EC	DTD123ECHZG	T116	2.2	2.2	50	0.5	39 or more	YES
			DTD143EC	DTD143ECHZG	T116	4.7	4.7	50	0.5	47 or more	YES
			DTD114EC	DTD114ECHZG	T116	10	10	50	0.5	56 or more	YES
		R_1≠R_2	DTD113ZC	DTD113ZCHZG	T116	1	10	50	0.5	56 or more	YES
			DTD123YC	DTD123YCHZG	T116	2.2	10	50	0.5	56 or more	YES
		R_1 Alone	DTD123TC	DTD123TCHZG	T116	2.2	—	40	0.5	100 to 600	YES
		R_2 Alone	DTD114GC	DTD114GCHZG	T116	—	10	50	0.5	56 or more	YES
 TO-236 SOT-346 (SMT3) 2928 size P_D=200mW*	PNP 	R_1=R_2	DTB113EK	—	T146	1	1	−50	−0.5	33 or more	—
			DTB123EK	—	T146	2.2	2.2	−50	−0.5	39 or more	—
			DTB143EK	—	T146	4.7	4.7	−50	−0.5	47 or more	—
			DTB114EK	—	T146	10	10	−50	−0.5	56 or more	—
		R_1≠R_2	DTB113ZK	—	T146	1	10	−50	−0.5	56 or more	—
			DTB123YK	—	T146	2.2	10	−50	−0.5	56 or more	—
		R_1 Alone	DTB123TK	—	T146	2.2	—	−40	−0.5	100 to 600	—
		R_2 Alone	DTB114GK	—	T146	—	10	−50	−0.5	56 or more	—
	NPN 	R_1=R_2	DTD113EK	—	T146	1	1	50	0.5	33 or more	—
			DTD123EK	—	T146	2.2	2.2	50	0.5	39 or more	—
			DTD143EK	—	T146	4.7	4.7	50	0.5	47 or more	—
			DTD114EK	—	T146	10	10	50	0.5	56 or more	—
		R_1≠R_2	DTD113ZK	—	T146	1	10	50	0.5	56 or more	—
			DTD123YK	—	T146	2.2	10	50	0.5	56 or more	—
		R_1 Alone	DTD123TK	—	T146	2.2	—	40	0.5	100 to 600	—
		R_2 Alone	DTD114GK	—	T146	—	10	50	0.5	56 or more	—

注1：*为安装于推荐焊盘时。
注2：(　)内表示ROHM封装。

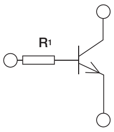
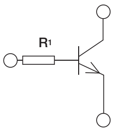
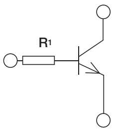
数字晶体管

12V/500mA 数字晶体管

Package	Polarity	Specifications	Part No.	Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})
 SOT-723 (VMT3) 1212 size P_D=150mW*	PNP 	R_1=R_2	DTB543EM	T2L	4.7	4.7	–12	–0.5	115 or more
		$R_1 \neq R_2$	DTB513ZM	T2L	1	10	–12	–0.5	140 or more
			DTB523YM	T2L	2.2	10	–12	–0.5	140 or more
			DTB543XM	T2L	4.7	10	–12	–0.5	140 or more
			DTB543ZM	T2L	4.7	47	–12	–0.5	140 or more
	NPN 	R_1=R_2	DTD543EM	T2L	4.7	4.7	12	0.5	115 or more
		$R_1 \neq R_2$	DTD513ZM	T2L	1	10	12	0.5	140 or more
			DTD523YM	T2L	2.2	10	12	0.5	140 or more
			DTD543XM	T2L	4.7	10	12	0.5	140 or more
			DTD543ZM	T2L	4.7	47	12	0.5	140 or more
 SOT-416 (EMT3) 1616 size P_D=150mW*	PNP 	R_1=R_2	New DTB543EE3	TL	4.7	4.7	–12	–0.5	115 or more
		$R_1 \neq R_2$	New DTB513ZE3	TL	1	10	–12	–0.5	140 or more
			New DTB523YE3	TL	2.2	10	–12	–0.5	140 or more
			New DTB543ZE3	TL	4.7	47	–12	–0.5	140 or more
	NPN 	R_1=R_2	New DTD543EE3	TL	4.7	4.7	12	0.5	115 or more
		$R_1 \neq R_2$	New DTD513ZE3	TL	1	10	12	0.5	140 or more
			New DTD523YE3	TL	2.2	10	12	0.5	140 or more
			New DTD543XE3	TL	4.7	10	12	0.5	140 or more
			New DTD543ZE3	TL	4.7	47	12	0.5	140 or more

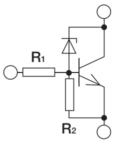
注1：*为安装于推荐焊盘时。
注2：(　)内表示ROHM封装。

静音用 数字晶体管

Package	Polarity	Specifications	Part No.	Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})
 SOT-323FL (UMT3F) 2021 size P_D=200mW*	NPN 	R_1 Alone	DTC923TUB	TL	2.2	–	40 (V_{EBO})	0.4	820 to 2,700
			DTC943TUB	TL	4.7	–	40 (V_{EBO})	0.4	820 to 2,700
			DTC914TUB	TL	10	–	40 (V_{EBO})	0.4	820 to 2,700
 SOT-323 (UMT3) 2021 size P_D=200mW*	NPN 	R_1 Alone	DTC623TU	T106	2.2	–	20	0.6	820 to 2,700
			DTC643TU	T106	4.7	–	20	0.6	820 to 2,700
			DTC614TU	T106	10	–	20	0.6	820 to 2,700
 TO-236 SOT-346 (SMT3) 2928 size P_D=200mW*	NPN 	R_1 Alone	DTC623TK	T146	2.2	–	20	0.6	820 to 2,700
			DTC643TK	T146	4.7	–	20	0.6	820 to 2,700
			DTC614TK	T146	10	–	20	0.6	820 to 2,700

注1：*为安装于推荐焊盘时。
注2：(　)内表示ROHM封装。

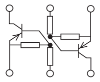
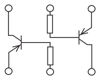
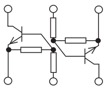
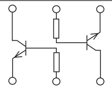
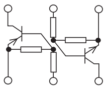
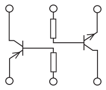
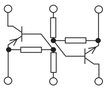
功率数字晶体管(含车载适用品)

Package	Polarity	Specifications	Part No.		Packing code	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	G_I (h_{FE})	Automotive Grade AEC-Q101
			General	Automotive							
 TO-243 SOT-89 (MPT3) 4540 size P_D=0.5W*	NPN 	驱动器	**DTDG23YP**	**DTDG23YPFRA**	T100	2.2	10	60±10	1	300 or more	YES
			DTDG14GP	**DTDG14GPFRA**	T100	—	10	60±10	1	300 or more	YES

注1：*为安装于推荐焊盘时。
注2：关于内部电路，请参照规格说明书。
注3：(　)内表示ROHM封装。

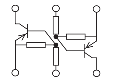
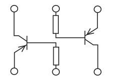
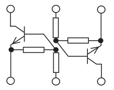
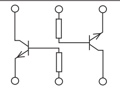
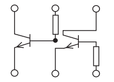
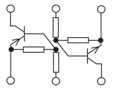
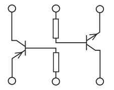
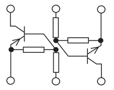
复合数字晶体管

100mA 复合数字晶体管

Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.	Packing code	Equivalent Element Transistors	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)
 SOT-563 (EMT6) 1616 size	PNP×2		**EMB10**	T2R	DTA123J×2	2.2	47	−50	−0.1
			EMB11	T2R	DTA114E×2	10	10		−0.05
			EMB2	T2R	DTA144E×2	47	47		−0.03
			**EMB3**	T2R	DTA143T×2	4.7	–		−0.1
			EMB4	T2R	DTA114T×2	10	–		−0.1
	NPN×2		**EMH10**	T2R	DTC123J×2	2.2	47	50	0.1
			EMH25	T2R	DTC143Z×2	4.7	47		0.1
			EMH11	T2R	DTC114E×2	10	10		0.05
			EMH9	T2R	DTC114Y×2	10	47		0.07
			EMH1	T2R	DTC124E×2	22	22		0.03
			EMH2	T2R	DTC144E×2	47	47		0.03
			**EMH3**	T2R	DTC143T×2	4.7	–		0.1
			EMH4	T2R	DTC114T×2	10	–		0.1
	PNP+NPN Complimentary		**EMD22**	T2R	DTA143Z	4.7	47	−50	−0.1
					DTC143Z	4.7	47	50	0.1
			EMD3	T2R	DTA114E	10	10	−50	−0.05
					DTC114E	10	10	50	0.05
			EMD9	T2R	DTA114Y	10	47	−50	−0.07
					DTC114Y	10	47	50	0.07
			EMD2	T2R	DTA124E	22	22	−50	−0.03
					DTC124E	22	22	50	0.03
			EMD12	T2R	DTA144E	47	47	−50	−0.03
					DTC144E	47	47	50	0.03
			**EMD6**	T2R	DTA143T	4.7	–	−50	−0.1
					DTC143T	4.7	–	50	0.1
	PNP+NPN Different type		**EMD5**	T2R	DTA143X	4.7	10	−50	−0.1
					DTC144E	47	47	50	0.03
			EMD4	T2R	DTA114Y	10	47	−50	−0.1
					DTC144E	47	47	50	0.03

注1：关于引脚配置，请参照规格说明书。
注2：(　)内表示ROHM封装。

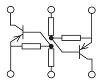
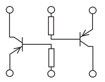
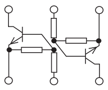
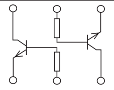
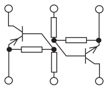
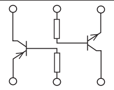
100mA 复合数字晶体管(含车载适用品)

Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.		Packing code	Equivalent Element Transistors	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	Automotive Grade AEC-Q101
			General	Automotive							
 SOT-363 (UMT6) 2021 size	PNP×2		UMB10N	UMB10NFHA	TN	DTA123J×2	2.2	47	−50	−0.1	YES
			UMB11N	UMB11NFHA	TN	DTA114E×2	10	10		−0.05	YES
			UMB2N	UMB2NFHA	TN	DTA144E×2	47	47		−0.03	YES
			UMB3N	UMB3NFHA	TN	DTA143T×2	4.7	–		−0.1	YES
			UMB4N	UMB4NFHA	TN	DTA114T×2	10	–		−0.1	YES
	NPN×2		UMH10N	UMH10NFHA	TN	DTC123J×2	2.2	47	50	0.1	YES
			UMH25N	UMH25NFHA	TN	DTC143Z×2	4.7	47		0.1	YES
			UMH11N	UMH11NFHA	TN	DTC114E×2	10	10		0.05	YES
			UMH9N	UMH9NFHA	TN	DTC114Y×2	10	47		0.07	YES
			UMH1N	UMH1NFHA	TN	DTC124E×2	22	22		0.03	YES
			UMH2N	UMH2NFHA	TN	DTC144E×2	47	47		0.03	YES
			UMH3N	UMH3NFHA	TN	DTC143T×2	4.7	–		0.1	YES
			UMH4N	UMH4NFHA	TN	DTC114T×2	10	–		0.1	YES
			UMH8N	–	TR	DTC114T×2	10	–		0.1	–
	PNP+NPN Complimentary		UMD25N	–	TR	DTA123J	2.2	47	−50	−0.1	–
						DTC123J	2.2	47	50	0.1	
			UMD22N	UMD22NFHA	TR	DTA143Z	4.7	47	−50	−0.1	YES
						DTC143Z	4.7	47	50	0.1	
			UMD3N	UMD3NFHA	TR	DTA114E	10	10	−50	−0.05	YES
						DTC114E	10	10	50	0.05	
			UMD9N	UMD9NFHA	TR	DTA114Y	10	47	−50	−0.07	YES
						DTC114Y	10	47	50	0.07	
			UMD2N	UMD2NFHA	TR	DTA124E	22	22	−50	−0.03	YES
						DTC124E	22	22	50	0.03	
			UMD12N	UMD12NFHA	TR	DTA144E	47	47	−50	−0.03	YES
						DTC144E	47	47	50	0.03	
			UMD6N	UMD6NFHA	TR	DTA143T	4.7	–	−50	−0.1	YES
						DTC143T	4.7	–	50	0.1	
	PNP+NPN Different type		UMD5N	–	TR	DTA143X	4.7	10	−50	−0.1	–
						DTC144E	47	47	50	0.03	
			UMD4N	–	TR	DTA114Y	10	47	−50	−0.1	–
						DTC144E	47	47	50	0.03	

注1：关于引脚配置，请参照规格说明书。
注2：(　)内表示ROHM封装。

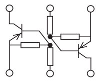
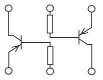
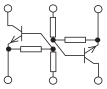
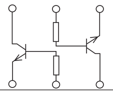
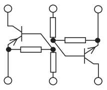
复合数字晶体管

100mA 复合数字晶体管(一般产品)

Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.	Packing code	Equivalent Element Transistors	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)	Automotive Grade AEC-Q101
			General							
 SOT-457 (SMT6) 2928 size	PNP×2		**IMB10A**	T110	DTA123J×2	2.2	47	−50	−0.1	–
			IMB11A	T110	DTA114E×2	10	10		−0.05	–
			IMB2A	T110	DTA144E×2	47	47		−0.03	–
			**IMB3A**	T110	DTA143T×2	4.7	–		−0.1	–
	NPN×2		**IMH11A**	T110	DTC114E×2	10	10	50	0.05	YES
			IMH9A	T110	DTC114Y×2	10	47		0.07	YES
			IMH1A	T110	DTC124E×2	22	22		0.03	–
			IMH2A	T110	DTC144E×2	47	47		0.03	–
			**IMH3A**	T110	DTC143T×2	4.7	–		0.1	–
			IMH4A	T110	DTC114T×2	10	–		0.1	–
	PNP+NPN Complimentary		**IMD3A**	T108	DTA114E	10	10	−50	−0.05	YES
					DTC114E	10	10	50	0.05	
			IMD9A	T108	DTA114Y	10	47	−50	−0.07	YES
					DTC114Y	10	47	50	0.07	
			IMD2A	T108	DTA124E	22	22	−50	−0.03	–
					DTC124E	22	22	50	0.03	
			**IMD6A**	T108	DTA143T	4.7	–	−50	−0.1	–
					DTC143T	4.7	–	50	0.1	

注1：关于引脚配置，请参照规格说明书。
注2：(　)内表示ROHM封装。

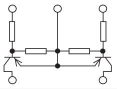
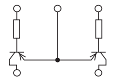
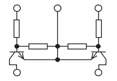
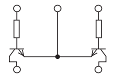
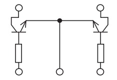
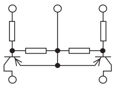
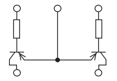
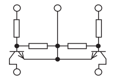
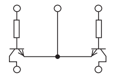
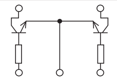
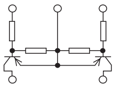
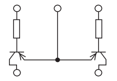
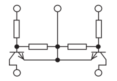
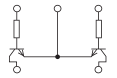
100mA 复合数字晶体管 (一般产品)

Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.	Packing code	Equivalent Element Transistors	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)
 SOT-563 (EMT6) 1616 size	PNP×2		**EMB60**	T2R	DTA023J×2	2.2	47	−50	−0.1
			EMB75	T2R	DTA043Z×2	4.7	47		−0.1
			EMB59	T2R	DTA014Y×2	10	47		−0.07
			EMB61	T2R	DTA014E×2	10	10		−0.05
			EMB51	T2R	DTA024E×2	22	22		−0.03
			EMB52	T2R	DTA044E×2	47	47		−0.03
			**EMB53**	T2R	DTA043T×2	4.7	–		−0.1
	NPN×2		**EMH60**	T2R	DTC023J×2	2.2	47	50	0.1
			EMH75	T2R	DTC043Z×2	4.7	47		0.1
			EMH61	T2R	DTC014E×2	10	10		0.05
			EMH59	T2R	DTC014Y×2	10	47		0.07
			EMH51	T2R	DTC024E×2	22	22		0.03
			EMH52	T2R	DTC044E×2	47	47		0.03
			**EMH53**	T2R	DTC043T×2	4.7	–		0.1
	PNP+NPN Complimentary		**EMD72**	T2R	DTA043Z	4.7	47	−50	−0.1
					DTC043Z	4.7	47	50	0.1
			EMD59	T2R	DTA014Y	10	47	−50	−0.07
					DTC014Y	10	47	50	0.07
			EMD53	T2R	DTA014E	10	10	−50	−0.05
					DTC014E	10	10	50	0.05
			EMD52	T2R	DTA024E	22	22	−50	−0.03
					DTC024E	22	22	50	0.03
			EMD62	T2R	DTA044E	47	47	−50	−0.03
					DTC044E	47	47	50	0.03

注1：关于引脚配置，请参照规格说明书。
注2：(　)内表示ROHM封装。

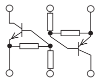
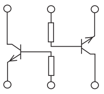
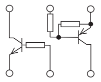
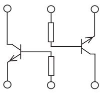
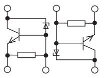
复合数字晶体管

100mA 复合数字晶体管 (一般产品)

Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.	Packing code	Equivalent Element Transistors	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)
 SOT-553 (EMT5) 1616 size	PNP×2		**EMA5**	T2R	DTA123J×2	2.2	47	−50	−0.1
			**EMA3**	T2R	DTA143T×2	4.7	–	−50	−0.1
			EMA4	T2R	DTA114T×2	10	–	−50	−0.1
	NPN×2		**EMG11**	T2R	DTC123J×2	2.2	47	50	0.1
			EMG8	T2R	DTC143Z×2	4.7	47	50	0.1
			EMG9	T2R	DTC114E×2	10	10	50	0.05
			EMG5	T2R	DTC114Y×2	10	47	50	0.07
			EMG1	T2R	DTC124E×2	22	22	50	0.03
			EMG2	T2R	DTC144E×2	47	47	50	0.03
			**EMG3**	T2R	DTC143T×2	4.7	–	50	0.1
			EMG4	T2R	DTC114T×2	10	–	50	0.1
			**EMG6**	T2R	DTC144T×2	47	–	50	0.1
 SOT-353 (UMT5) 2021 size	PNP×2		**UMA5N**	TR	DTA123J×2	2.2	47	−50	−0.1
			UMA9N	TR	DTA114E×2	10	10	−50	−0.05
			UMA1N	TR	DTA124E×2	22	22	−50	−0.03
			UMA2N	TR	DTA144E×2	47	47	−50	−0.03
			**UMA3N**	TR	DTA143T×2	4.7	–	−50	−0.1
			UMA4N	TR	DTA114T×2	10	–	−50	−0.1
	NPN×2		**UMG11N**	TR	DTC123J×2	2.2	47	50	0.1
			UMG8N	TR	DTC143Z×2	4.7	47	50	0.1
			UMG9N	TR	DTC114E×2	10	10	50	0.05
			UMG5N	TR	DTC114Y×2	10	47	50	0.07
			UMG1N	TR	DTC124E×2	22	22	50	0.03
			UMG2N	TR	DTC144E×2	47	47	50	0.03
			**UMG3N**	TR	DTC143T×2	4.7	–	50	0.1
			UMG4N	TR	DTC114T×2	10	–	50	0.1
			**UMG6N**	TR	DTC144T×2	47	–	50	0.1
 SOT-25 (SMT5) 2928 size	PNP×2		**FMA5A**	T148	DTA123J×2	2.2	47	−50	−0.1
			FMA9A	T148	DTA114E×2	10	10	−50	−0.05
			FMA1A	T148	DTA124E×2	22	22	−50	−0.03
			FMA2A	T148	DTA144E×2	47	47	−50	−0.03
			**FMA3A**	T148	DTA143T×2	4.7	–	−50	−0.1
			FMA4A	T148	DTA114T×2	10	–	−50	−0.1
	NPN×2		**FMG9A**	T148	DTC114E×2	10	10	50	0.05
			FMG1A	T148	DTC124E×2	22	22	50	0.03
			FMG2A	T148	DTC144E×2	47	47	50	0.03
			**FMG3A**	T148	DTC143T×2	4.7	–	50	0.1
			FMG4A	T148	DTC114T×2	10	–	50	0.1
			FMG6A	T148	DTC144T×2	47	–	50	0.1

注1：关于引脚配置，请参照规格说明书。
注2：(　)内表示ROHM封装。

电源、静噪、驱动器用 复合数字晶体管

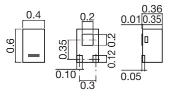
Package	Configuration	Equivalent Circuit Diagram (TOP View)	Part No.	Packing code	Equivalent Element Transistors	R_1 (kΩ)	R_2 (kΩ)	V_{CC} (V_{CEO}) (V)	I_O (I_C) (A)
 SOT-563 (EMT6) 1616 size	PNP+NPN Power Management		**EMD29**	T2R	DTB513Z DTC114E	1 10	10 10	–12 50	–0.5 0.1
 SOT-363 (UMT6) 2021 size	NPN×2 Muting		**UMH33N**	TN	DTC923TUB×2	2.2	–	40 (V_{EBO})	0.4
			UMH37N	TN	DTC914TUB×2	10	–	40 (V_{EBO})	0.4
 SOT-457 (SMT6) 2928 size	PNP+NPN Power Management		**IMD10A**	T108	Exclusive Chip DTC114T	0.1 10	10 –	–50 50	–0.5 0.1
			IMD16A	T108	Exclusive Chip DTC115T	2.2 100	22 –	–50 50	–0.5 0.1
	NPN×2 Muting		**IMH23**	T110	DTC643T×2	4.7	–	20	0.6
			IMH21	T110	DTC614T×2	10	–	20	0.6
 SOT-457T (TSMT6) 2928 size	NPN×2 驱动器		**QSH29**	TR	Exclusive Chip×2	–	10	60±10	0.5

注1：关于引脚配置，请参照规格说明书。
注2：(　)内表示ROHM封装。

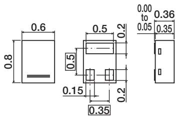
封装

●外形尺寸图 (单位：mm)

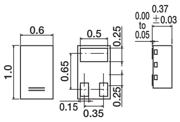
DFN0604-3
(VML0604)



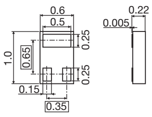
DFN0806-3
(VML0806)



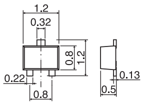
DFN1006-3
(VML1006)



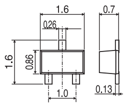
DSN1006-3
(SMM1006)



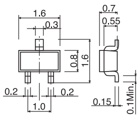
SOT-723
(VMT3)



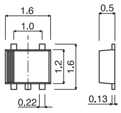
SOT-416FL
(EMT3F)



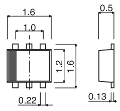
SOT-416
(EMT3)



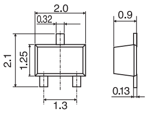
SOT-553
(EMT5)



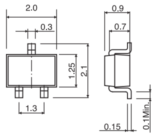
SOT-563
(EMT6)



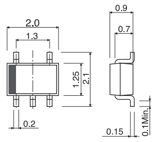
SOT-323FL
(UMT3F)



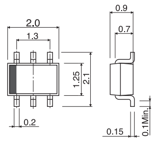
SOT-323
(UMT3)



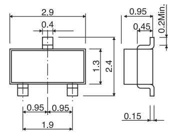
SOT-353
(UMT5)



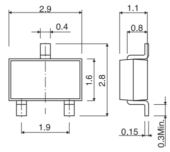
SOT-363
(UMT6)



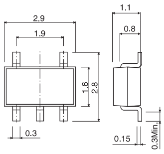
TO-263AB
SOT-23
(SST3)



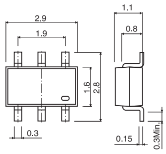
TO-236
SOT-346
(SMT3)



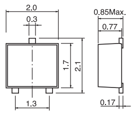
SOT-25
(SMT5)



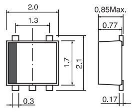
SOT-457
(SMT6)



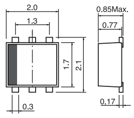
SOT-323T
(TUMT3)



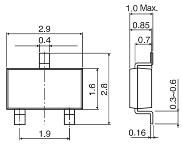
SOT-353T
(TUMT5)



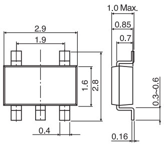
SOT-363T
(TUMT6)



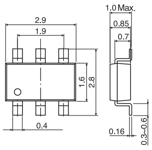
SOT-346T
(TSMT3)



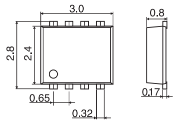
SOT-25T
(TSMT5)



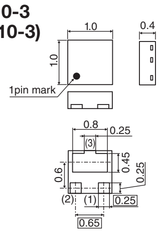
SOT-457T
(TSMT6)



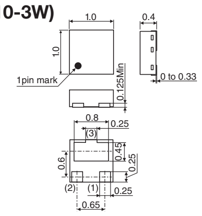
(TSMT8)



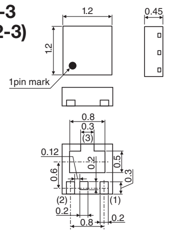
DFN1010-3
(DFN1010-3)



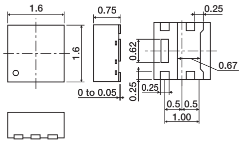
DFN1010-3W
(DFN1010-3W)



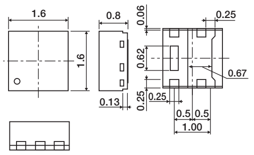
DFN1212-3
(DFN1212-3)



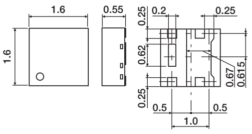
DFN1616-6
(DFN1616-6)



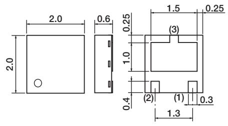
DFN1616-6W
(DFN1616-6W)



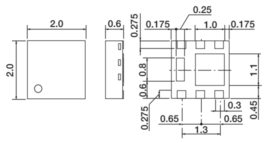
DFN1616-7T
(HEML1616L7)



DFN2020-3S
(HUML2020L3)



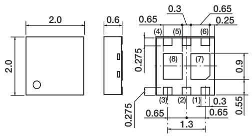
DFN2020-8S
(HUML2020L8) Single



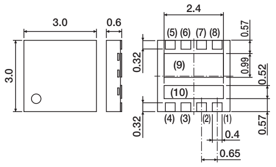
注1：(　)内表示ROHM封装。
注2：详细尺寸请参考规格书。

●外形尺寸图 (单位：mm)

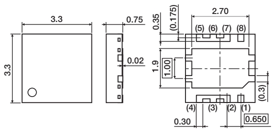
DFN2020-8D
(HUML2020L8) Dual



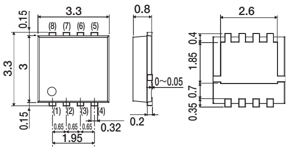
(HSML3030L10)



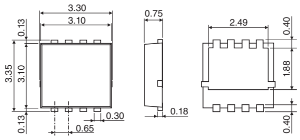
DFN3333-9DC
(HSML3333L9)



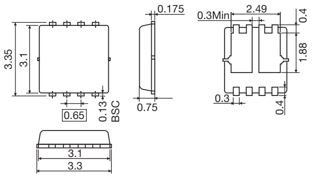
(HSMT8)*1 Single



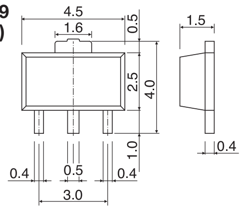
(HSMT8)*2 Single



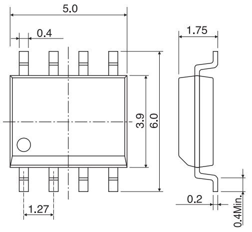
(HSMT8) Dual



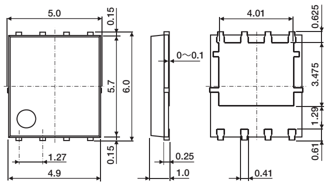
TO-243
SOT-89
(MPT3)



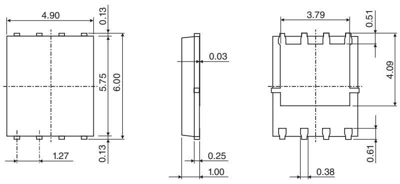
SOP8
(SOP8)



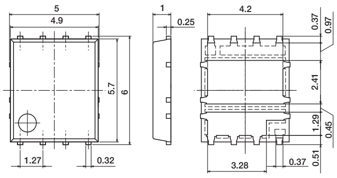
HSOP8*1
(HSOP8) Single



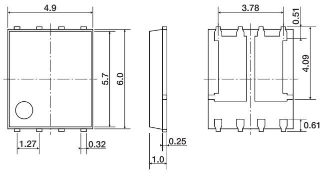
HSOP8*2
(HSOP8) Single



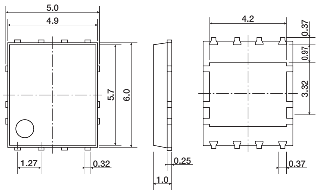
HSOP8
(HSOP8) Asymmetry Dual



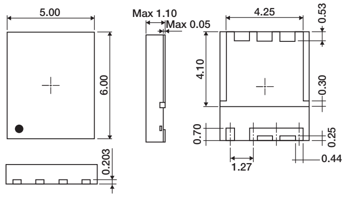
HSOP8
(HSOP8) Symmetry Dual



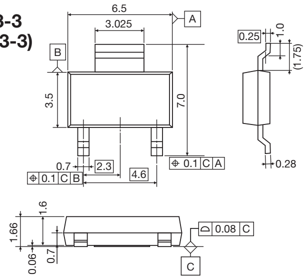
HSOP8
(HSOP8) Drain Common Dual



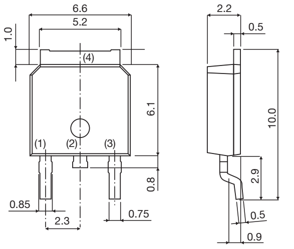
DFN5060-8S
(DFN5060T8LSHAAE)



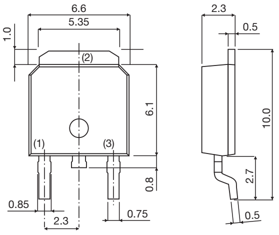
TO-261
SOT-223-3
(SOT-223-3)



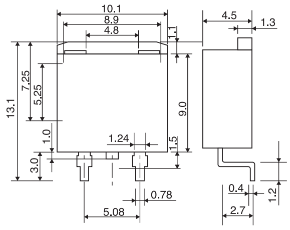
TO-252*3
DPAK
(TO-252)



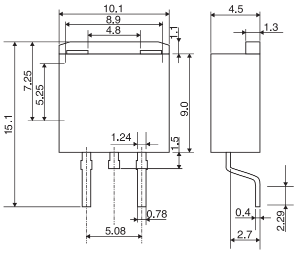
TO-252*4
DPAK
(TO-252)



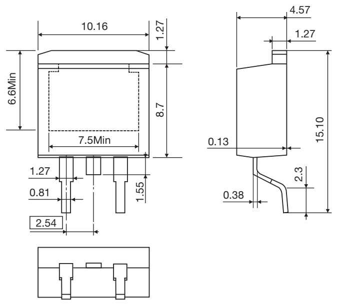
TO-263S
D2PAK
(LPTS)



TO-263AB
(LPTL)



TO-263AB
(TO-263AB-3LSHYAD)

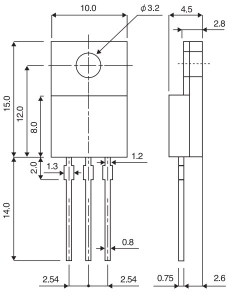


注1：*1 Taping code: TB, *2 Taping code: TB1
注2：*3 Taping code: TL, *4 Taping code: TL1
注3：( )内表示ROHM封装。
注4：详细尺寸请参考规格书。

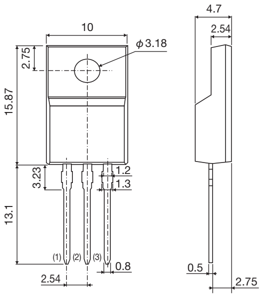
封装

●外形尺寸图 (单位：mm)

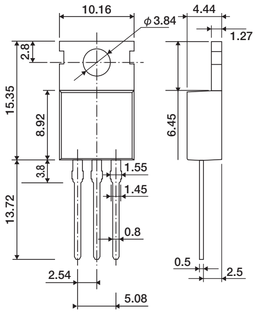
TO-220FP*1
(TO-220FM)



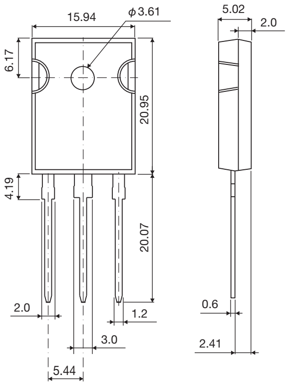
TO-220FP*2
(TO-220FM)



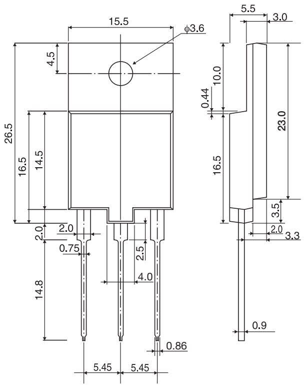
TO-220AB
(TO-220AB)



TO-247AD
(TO-247)



(TO-3PF)

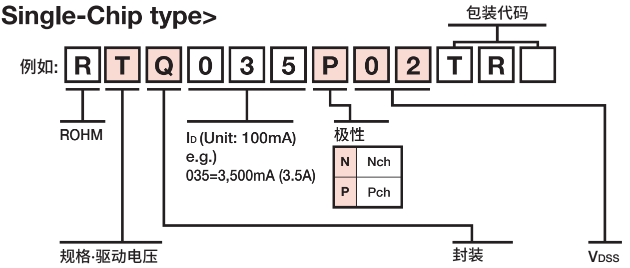


注1：*1 Packing code: —, *2 Packing code: C7 G
注2：(　)内表示ROHM封装。
注3：详细尺寸请参考规格书。

品名构成说明

• MOSFET品名构成说明

<Single-Chip type>



极性

N	Nch
P	Pch

规格·驱动电压

Type of MOSFET	Drive Voltage (V)			
	0.9/1.2/1.5/1.8	2.5	4	10
Low IGSS type	—	—	—	C
General use type	Z, U, Y	T	R, S, X, V	—
High ESD Resistance type	—	J	H	—
Stripe	A	—	—	—

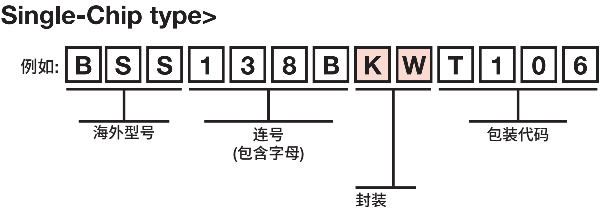
封装

Symbol	Package
M	SOT-723
F	SOT-323T
L	SOT-363T
C	TO-236AB
R	SOT-346T
Q	SOT-457T
P	TO-243
H	SOP8
S	SOP8
J	TO-263S
X	TO-220FP

VDSS

Symbol	VDSS (V)
01	12
02	20
03	30
05	45
06	60
10	100
20	200
25	250

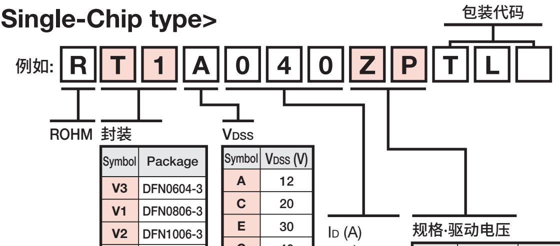
<Single-Chip type>



封装

Symbol	Package
W	SOT-323
WA	
KW	
K	SOT-23
A	
KA	
X	DFN1010-3W
XA	
KX	

<Single-Chip type>



封装

Symbol	Package
V3	DFN0604-3
V1	DFN0806-3
V2	DFN1006-3
A1	DSN1006-3
V4	DFN1616-6W
V8	DFN1010-3W
V9	DFN1010-3
V7	DFN1212-3
V5	DFN1616-6
E1	SOT-416FL
U1	SOT-323FL
F5	SOT-323T
F6	SOT-363T
Q5	SOT-346T
Q6	SOT-457T
Q1	(TSMT8)
Q7	(TSMT8)
W4	DFN1616-7T
F4	DFN2020-8S
Q3	(HSMT8)
H6	(HSMT8)
S3	SOP8
S1	HSOP8
S6	HSOP8
S7	DFN5060-8S
D3	TO-252
X3	TO-220AB
J1	TO-263AB TO-263S

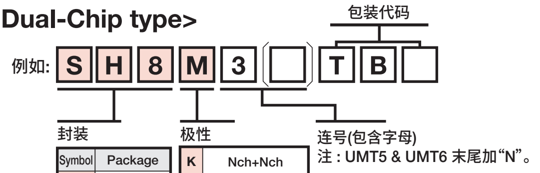
VDSS

Symbol	VDSS (V)
A	12
C	20
E	30
G	40
H	45
J	50
L	60
N	80
P	100
R	150
S	190
T	200
U	250

规格·驱动电压

Symbol	Process	Pol.	Drive Voltage	Comment
YN	Gen.1	Nch	0.9V	—
UN	Gen.1	Nch	1.2V/1.5V	—
SN	Gen.1	Nch	2.5V/4.0V	—
AA	Gen.1	Nch	10V	For Automotive
CN	Gen.1	Nch	10V	—
MN	Gen.3	Nch	4.5V	High Performance
BD	Gen.3	Nch	6.0V	—
BE	Gen.3	Nch	10V	—
AD	Gen.4	Nch	4.5V	Built-in ESD Protection
BN	Gen.4	Nch	4.5V	—
GN	Gen.4	Nch	4.5V	High Performance
AJ	Gen.5	Nch	2.5V	—
BG	Gen.6	Nch	4.5V	—
BH	Gen.6	Nch	6V/10V	—
CH	Gen.7	Nch	6.0V	—
LD	CSP	Nch	2.5V	—
SP	Gen.1	Pch	2.5V/4.0V	—
ZP	Gen.2	Pch	1.2V/1.5V	—
RP	Gen.2	Pch	4.0V	—
AP	Gen.4	Pch	1.5V	—
BC	Gen.5	Pch	1.8V	—
AT	Gen.5	Pch	4.5V	—

<Dual-Chip type>



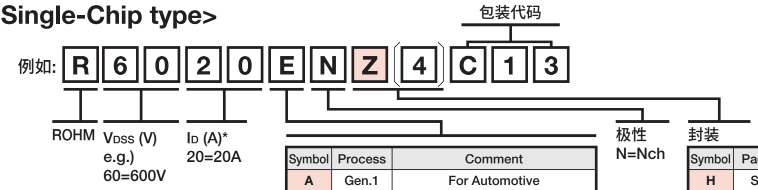
封装

Symbol	Package
EM6	SOT-563
UM6	SOT-363
US5	SOT-353T
US6	SOT-363T
QS5	SOT-25T
QS6	SOT-457T
QH6	SOT-457T
QS8	(TSMT8)
QH8	(TSMT8)
UT6	DFN2020-8D
HS8	(HSML)
HT8	(HSMT8)
SH8	SOP8
SP8	SOP8
HP8	HSOP8

极性

K	Nch+Nch
J	Pch+Pch
M	Nch+Pch
U	MOS+SBD

<Single-Chip type>



Symbol	Process	Comment
A	Gen.1	For Automotive
C	Gen.1	For Automotive / Built-in ESD Protection
P	Gen.1	For Automotive
E	Gen.3	Low Noise
K	Gen.3	Fast switching
J	Gen.3	Fast recovery
R	Gen.3	Fast recovery & Low Noise
Y	Gen.4	Fast switching
V	Gen.4	Fast recovery

封装

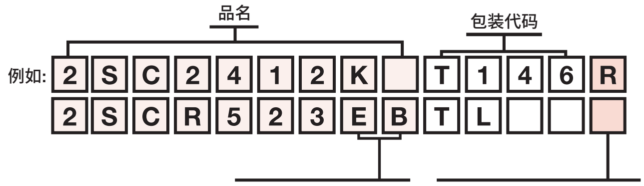
Symbol	Package
H	SOP8
D4	TO-261
D3	TO-252
J	TO-263S
X	TO-220FP
X3	TO-220AB
Z	(TO-3PF)
Z4	TO-247AD

*绝缘封装时可能不同

注 : (　)内表示ROHM封装。

品名构成说明

•双极晶体管品名构成说明



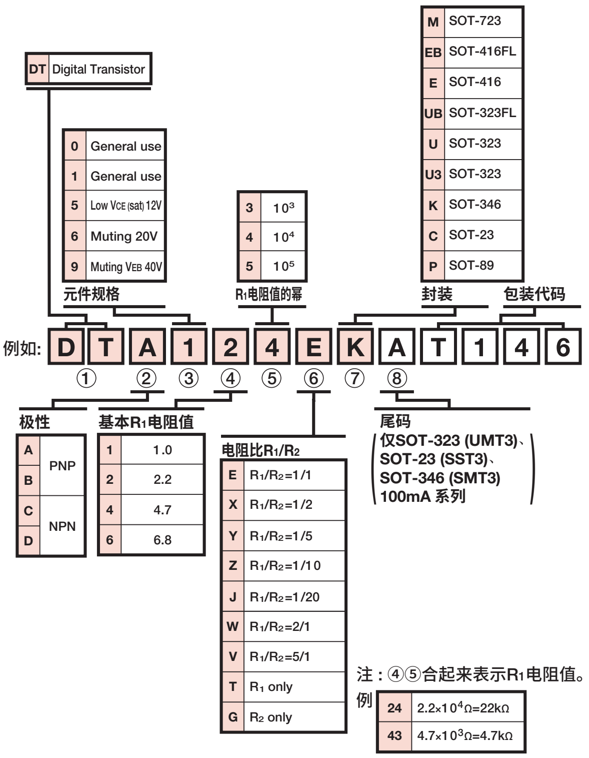
•Package

Code	Package
M	SOT-723
EB	SOT-416FL
E	SOT-416
E3	SOT-416
UB	SOT-323FL
U	SOT-323
U3	SOT-323
K	SOT-346
C	SOT-23
R	SOT-346T
F3	DFN2020-3S
P	SOT-89
P5	SOT-89
D3	TO-252
J	TO-263

•h_{FE} Ranking Code

Code	h_{FE} Range
N	56 to 120
P	82 to 180
Q	120 to 270
R	180 to 390
S	270 to 560
U	560 to 1200
V	820 to 1800
W	1200 to 2700

•数字晶体管品名构成说明



DT	Digital Transistor

元件规格

0	General use
1	General use
5	Low $V_{CE(sat)}$ 12V
6	Muting 20V
9	Muting V_{EB} 40V

R_1电阻值的幂

3	10^3
4	10^4
5	10^5

封装

M	SOT-723
EB	SOT-416FL
E	SOT-416
UB	SOT-323FL
U	SOT-323
U3	SOT-323
K	SOT-346
C	SOT-23
P	SOT-89

包装代码

极性

A	PNP
B	
C	NPN
D	

基本R_1电阻值

1	1.0
2	2.2
4	4.7
6	6.8

电阻比R_1/R_2

E	$R_1/R_2=1/1$
X	$R_1/R_2=1/2$
Y	$R_1/R_2=1/5$
Z	$R_1/R_2=1/10$
J	$R_1/R_2=1/20$
W	$R_1/R_2=2/1$
V	$R_1/R_2=5/1$
T	R_1 only
G	R_2 only

尾码
（仅SOT-323 (UMT3)、
SOT-23 (SST3)、
SOT-346 (SMT3)
100mA 系列）

注：④⑤合起来表示R_1电阻值。

例

24	$2.2\times10^4\Omega=22k\Omega$
43	$4.7\times10^3\Omega=4.7k\Omega$

•封装类型

Package					Size (mm)	Height (mm)	Packing Code	Packing from	Direction	Quantity (pcs)
	GENERAL Code	JEDEC Code	ROHM Package	JEITA Code						
Surface Mount type	DFN0604-3	–	(VML0604)	–	0604	0.36	T2L, T2CL	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	8,000
	DFN0806-3	–	(VML0806)	–	0806	0.36	T2L, T2CL	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	8,000
	DFN1006-3	–	(VML1006)	SC-101	1006	0.37	T2L, T2CL	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	8,000
	DSN1006-3	–	(SMM1006)	–	1006	0.22	T5CL	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	15,000
	SOT-723	–	(VMT3)	SC-105AA	1212	0.5	T2L, T2CL	Embossed tape	One terminal on sprocket hole side	8,000
	SOT-416FL	–	(EMT3F)	SC-89	1616	0.7	TL, TCL	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-416	–	(EMT3)	SC-75A	1616	0.7	TL, TCL	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-553	–	(EMT5)	SC-107BB	1616	0.5	T2R, T2CR	Embossed tape	Three terminals on sprocket hole side	8,000
	SOT-563	–	(EMT6)	SC-107C	1616	0.5	T2R, T2CR	Embossed tape	Terminal No.1 on sprocket hole side	8,000
	SOT-323FL	–	(UMT3F)	SC-85	2120	0.9	TL, TCL	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-323	–	(UMT3)	SC-70	2120	0.9	T106, T306	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-353	–	(UMT5)	SC-88A	2120	0.9	TR, TCR	Embossed tape	Three terminals on sprocket hole side	3,000
	SOT-363	–	(UMT6)	SC-88	2120	0.9	TR, TCR	Embossed tape	Terminal No.1 on sprocket hole side	3,000
							TN, TCN		Non-direction	
	SOT-323T	–	(TUMT3)	SC-113A	2120	0.77	TL, TCL	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-353T	–	(TUMT5)	SC-113CA	2120	0.77	TR, TCR	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	SOT-363T	–	(TUMT6)	SC-113DA	2120	0.77	TR, TCR	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	SOT-23	TO-236AB	(SST3)	SOT-23	2429	0.95	T116, T316	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-346	TO-236	(SMT3)	SC-59	2829	1.1	T146	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-25	–	(SMT5)	SC-74A	2829	1.1	T148	Embossed tape	Three terminals on sprocket hole side	3,000
	SOT-457	–	(SMT6)	SC-74	2829	1.1	T108	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	3,000
							T110		Non-direction	
	SOT-346T	–	(TSMT3)	SC-96	2928	0.85	TL, TCL	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-25T	–	(TSMT5)	–	2928	0.85	TR, TCR	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	SOT-457T	–	(TSMT6)	SC-95	2928	0.85	TR, TCR	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	–	–	(TSMT8)	–	3028	0.8	TR, TCR	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	DFN1010-3	–	(DFN1010-3)	–	1010	0.4	G2CR	Embossed tape	Terminal No.1 on sprocket hole side	8,000
	DFN1010-3W	–	(DFN1010-3) W	–	1010	0.4	G2CR	Embossed tape	Terminal No.1 on sprocket hole side	8,000
	DFN1212-3	–	DFN1212-3	–	1212	0.45	TCR1	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	DFN1616-6	–	(DFN1616-6)	–	1616	0.75	TCR1	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	DFN1616-6W	–	(DFN1616-6W)	–	1616	0.75	TCR1	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	DFN1616-7T	–	(HEML1616L7)	–	1616	0.6	TCL1	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	3,000
	DFN2020-3S	–	(HUML2020L3)	–	2020	0.6	TR, TCR	Embossed tape	Terminal No.1 on opposite side from sprocket hole side	3,000
	DFN2020-8D	–	(HUML2020L8)	–	2020	0.6	TR, TCR	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	DFN2020-8S	–	(HUML2020L8)	–	2020	0.6	TR, TCR	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	–	–	(HSML3030L10)	–	3030	0.6	TB	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	DFN3333-9DC	–	(HSML3333L9)	–	3333	0.75	TCR1	Embossed tape	Terminal No.1 on sprocket hole side	1,000
	–	–	(HSMT8)	–	3333	0.8	TB, TB1	Embossed tape	Terminal No.1 on sprocket hole side	3,000
	SOT-89	TO-243	(MPT3)	SC-62	4540	1.5	T100	Embossed tape	Three terminals on sprocket hole side	1,000
	SOP8	–	(SOP8)	–	5060	1.75	TB, TB1	Embossed tape	Terminal No.1 on sprocket hole side	2,500
	HSOP8	–	(HSOP8)		5060	1	TB, TB1	Embossed tape	Three terminals on sprocket hole side	2,500
	DFN5060-8S	–	(DFN5060T8LSHAAE)	–	5060	1	TB1	Embossed tape	Terminal No.1 on sprocket hole side	2,500
	SOT-223-3	TO-261	(SOT-223-3)	–	6.5×7.0	1.66	TL1	Embossed tape	Fin on sprocket hole side	4,000
	DPAK	TO-252	(TO-252)		10.0×6.6	2.2	TL, TL1	Embossed tape	Fin on sprocket hole side	2,500
	D2PAK	TO-263S	(LPTS)	SC-83	13.1×10.1	4.5	TL	Embossed tape	Fin on sprocket hole side	1,000
	–	TO-263AB	(LPTL)	–	15.1×10.1	4.5	TLL	Embossed tape	Fin on sprocket hole side	1,000
			(TO-263AB-3LSHYAD)				TL1			800
Leaded type	–	TO-220FP	(TO-220FM)	–	29×10	4.5	–	Bulk	–	500
						4.7	C7 G	Tube		1,000
	–	TO-220AB	(TO-220AB)	–	29.07×10.16	4.5	C16	Tube	–	1,000
	–	–	(TO-3PF)	–	43.8×15.5	5.5	C17	Tube	–	300
	–	TO-247AD	(TO-247)	–	41.26×15.94	5.02	C13	Tube	–	600
			(TO-247N)		41×16	5	C11			450

二极管

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

肖特基势垒二极管

●小信号肖特基势垒二极管一览表

V_R (V)	I_O (mA)	Surface Mount type									
		0402 size		0603 size				1006 size		2012 size	
											
		DSN0402-2 (SMD0402)		DSN0603-2 (SMD0603)		DSN0603-2 (SMD0603B)		DSN1006-2 (SMD1006)		DSN2012-2 (SMD2012)	
20	2,000							RB061QS-20	5		
30	100	RB522FS-30	1	RB522ES-30	2						
	200					RB520HS-30 RB532HS-30	3 4				
40	1,000							RB161QS-40	6		
	1,500							RB160QS-40	7		
	4,000[*1]									New RB080AR-40	8

注：(　)内表示ROHM封装。

*1 为I_F(正向电流)标识，非I_O(平均整流电流)。

肖特基势垒二极管

●小信号肖特基势垒二极管一览表

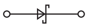
V_R (V)	I_O (mA)	Surface Mount type																	
		1006 size				1608 size		2512 size		2514 size		1616 size		2120 size				2924 size	
																			
		SOD-923 (VMN2M)		DFN1006-2W (DFN1006-2W)		SOD-523 (EMD2)		SOD-323FL (UMD2)		SOD-323HE (TUMD2M)		SOT-416FL (EMD3F)		SOT-323FL (UMD3F)		SOT-323 (UMD3)		SOT-23 (SSD3)	
20	500			New RB551ASA-30	20			RB551VM-30	44	RB411VAM-50	69								
	700															RB461FM	123		
	1,000									RB162VAM-20 RB161VAM-20 RBE1VAM20A	70 71 72								
	2,000									RBE2VAM20A	73								
30	30	RB751CM-40	9	RB751ASA-40	21	RB751SM-40	26	RB751VM-40	45										
	100	RB520CM-30 RB521CM-30 RB530CM-30 RB531CM-30	10 11 12 13			RB510SM-30 RB511SM-30 RB500SM-30 RB501SM-30	27 28 29 30	RB510VM-30 RB530VM-30 RB511VM-30 RB531VM-30	46 47 48 49			RB548WM RB557WM RB558WM	114 109 115						
	200			RB520ASA-30 RB521ASA-30	22 23	RB520SM-30 RB521SM-30 RB530SM-30 RB531SM-30	31 32 33 34	RB520VM-30 RB521VM-30 RB540VM-30 RB541VM-30	50 51 52 53									BAT54CHY BAT54AHY BAT54SHY BAT54HY	107 112 119 125
	500			New RB550ASA-30	24			RB550VM-30	54	RSX051VAM30 RSX051VYM30	74 75								
	700									RSX071VAM30 RSX071VYM30	76 77								
	1,000									RB168VAM-30 RB168VYM-30 RB550VAM-30 RB550VYM-30 RSX101VAM30 RSX101VYM30	78 79 80 81 82 83								
	1,500									RSX201VAM30 RSX201VYM30	84 85								
40	30											RB715WM RB706WM-40	103 116	RB715UM RB717UM RB706UM-40	104 110 117	RB715FM-40	106		
	80															RB508FM-40 RB508FM-40S RB508FM-40A RB508FM-40C	124 118 111 105		
	100	RB530CM-40 RB531CM-40 RB520CM-40 RB521CM-40	14 15 16 17			RB510SM-40 RB511SM-40 RB530SM-40 RB531SM-40	35 36 37 38	RB510VM-40 RB511VM-40 RB530VM-40 RB531VM-40 RB500VM-40 RB501VM-40	55 56 57 58 59 60					RB451UM RB450UM	121 122				
	120																	BAS40-05HY BAS40-06HY BAS40-04HY BAS40HY	108 113 120 126
	200			RB520ASA-40	25	RB540SM-40 RB541SM-40 RB520SM-40 RB521SM-40	39 40 41 42	RB540VM-40 RB541VM-40 RB520VM-40 RB521VM-40 RB550VM-40 RB551VM-40	61 62 63 64 65 66										
	500							RB560VM-40 RB561VM-40	67 68	RB400VAM-50 RB400VYM-50	86 87								
	1,000									RB160VAM-40 RB160VYM-40 RB168VAM-40 RB168VYM-40	88 89 90 91								
60	100	RB530CM-60 RB520CM-60	18 19																
	200					RB521SM-60	43												
	1,000									RB160VAM-60 RB168VAM-60 RB168VYM-60	92 93 94								
90	200									RB021VAM90	95								
100	700									RB578VAM100 RB578VYM100	96 97								
	1,000									RB168VAM100 RB168VYM100	98 99								
150	500									RB558VAM150	100								
	1,000									RB168VAM150 RB168VYM150	101 102								

注：(　)内表示ROHM封装。

肖特基势垒二极管

肖特基势垒二极管
例: R B 7 5 1 S M – 4 0 F H T 2 R
型号 产品性能代码 包装代码

小信号肖特基势垒二极管 1

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25˚C)				Electrical Characteristics (T_j=25˚C)*2				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O*1 (mA)	I_{FSM} (A)*2 60Hz.1 ∿	V_F (V) Max	I_F (mA)	I_R (μA) Max	V_R (V)			
		General	Automotive												
1	RB522FS-30	*	–	T27R	30	30	100	0.5	0.37	10	7	10	DSN0402-2 (SMD0402)		–
2	RB522ES-30		–	T15R	30	30	100	0.5	0.37	10	7	10	DSN0603-2 (SMD0603)		–
3	RB520HS-30		–	T15R	30	30	200	1.5	0.43	10	0.3	10	DSN0603-2 (SMD0603B)		–
4	RB532HS-30		–	T15R	30	30	200	1.5	0.3	10	15	10			–
5	RB061QS-20		–	T18R	20	20	2,000	15	0.47	2,000	200	10	DSN1006-2 (SMD1006)		–
6	RB161QS-40		–	T18R	40	40	1,000	7	0.6	1,000	100	10			–
7	RB160QS-40		–	T18R	40	40	1,500	10	0.65	1,500	1	10			–
8	New RB080AR-40		–	T7R	40	40	4,000*3	40	0.63	4,000	200	40	DSN2012-2 (SMD2012)		–
9	RB751CM-40		–	T2R	40	30	30	0.2	0.37	1	0.5	30	SOD-923 (VMN2M)		–
10	RB520CM-30		–	T2R	–	30	100	0.5	0.45	10	0.5	10			–
11	RB521CM-30		–	T2R	–	30	100	0.5	0.35	10	10	10			–
12	RB530CM-30		–	T2R	30	30	100	0.5	0.46	10	0.3	10			–
13	RB531CM-30		–	T2R	30	30	100	0.5	0.37	10	7	10			–
14	RB530CM-40		–	T2R	40	40	100	0.5	0.48	10	2	40			–
15	RB531CM-40		–	T2R	40	40	100	0.5	0.41	10	25	40			–
16	RB520CM-40		–	T2R	40	40	100	1	0.71	100	15	40			–
17	RB521CM-40		–	T2R	40	40	100	1	0.61	100	100	40			–
18	RB530CM-60		–	T2R	60	60	100	0.2	0.54	10	1	60			–
19	RB520CM-60		–	T2R	60	60	100	0.5	0.44	10	3	60			–
20	New RB551ASA-30	–	FH	T2RB	30	20	500	1	0.47	500	100	20	DFN1006-2W (DFN1006-2W)		YES
21	RB751ASA-40		FH	T2RB	40	30	30	0.2	0.37	1	0.5	30			YES
22	RB520ASA-30		FH	T2RB	30	30	200	1	0.58	200	1	10			YES
23	RB521ASA-30		FH	T2RB	30	30	200	1	0.47	200	30	10			YES
24	New RB550ASA-30		FH	T2RB	30	30	500	1	0.59	500	35	30			YES
25	RB520ASA-40		FH	T2RB	40	40	200	1	0.55	100	10	40			YES
26	RB751SM-40	*	FH	T2R	40	30	30	0.2	0.37	1	0.5	30	SOD-523 (EMD2)		YES
27	RB510SM-30		–	T2R	30	30	100	0.5	0.46	10	0.3	10			–
28	RB511SM-30		–	T2R	30	30	100	0.5	0.37	10	7	10			–
29	RB500SM-30		FH	T2R	30	30	100	1	0.45	10	0.5	10			YES
30	RB501SM-30		FH	T2R	30	30	100	1	0.35	10	10	10			YES
31	RB520SM-30		FH	T2R	–	30	200	1	0.58	200	1	10			YES
32	RB521SM-30		FH	T2R	–	30	200	1	0.47	200	30	10			YES
33	RB530SM-30		FH	T2R	–	30	200	1	0.45	10	0.5	10			YES
34	RB531SM-30		FH	T2R	–	30	200	1	0.35	10	10	10			YES
35	RB510SM-40		FH	T2R	40	40	100	0.5	0.48	10	2	40			YES
36	RB511SM-40		–	T2R	40	40	100	0.5	0.41	10	25	40			–
37	RB530SM-40		FH	T2R	40	40	100	1	0.71	100	15	40			YES
38	RB531SM-40		–	T2R	40	40	100	1	0.61	100	100	40			–
39	RB540SM-40		–	T2R	40	40	200	1	0.71	100	15	40			–
40	RB541SM-40		–	T2R	40	40	200	1	0.61	100	100	40			–
41	RB520SM-40		FH	T2R	45	40	200	1	0.55	100	10	40			YES
42	RB521SM-40		FH	T2R	45	40	200	1	0.54	200	90	40			YES
43	RB521SM-60		FH	T2R	60	60	200	1	0.6	200	100	60			YES

*一般产品的产品性能代码为空白。

*1 每个元件的平均输出电流为Io(1个元件)、1/2 Io(2个元件)或1/3 Io(3个元件)。

*2 每个元件的规格。

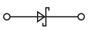
*3 为IF(正向电流)标识，非Io(平均整流电流)。

注：(　)内表示ROHM封装。

肖特基势垒二极管

肖特基势垒二极管
例: RB521VM−30 FH TE−17
型号　产品性能代码　包装代码

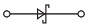
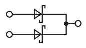
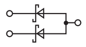
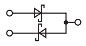
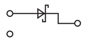
小信号肖特基势垒二极管 2

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25˚C)				Electrical Characteristics (T_j=25˚C)*2				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O*1 (mA)	I_{FSM} (A)*2 60Hz.1 ∿	V_F (V) Max		I_R (µA) Max				
		General	Automotive							I_F (mA)		V_R (V)			
44	RB551VM-30	*	—	TE-17	30	20	500	2	0.47	500	100	20	SOD-323FL (UMD2)		—
45	RB751VM-40		FH	TE-17	40	30	30	0.2	0.37	1	0.5	30			YES
46	RB510VM-30		FH	TE-17	30	30	100	0.5	0.46	10	0.3	10			YES
47	RB530VM-30		FH	TE-17	30	30	100	0.5	0.45	10	0.5	10			YES
48	RB511VM-30		—	TE-17	30	30	100	0.5	0.37	10	7	10			—
49	RB531VM-30		—	TE-17	30	30	100	1	0.49	100	10	10			—
50	RB520VM-30		FH	TE-17	30	30	200	1	0.58	200	1	10			YES
51	RB521VM-30		FH	TE-17	30	30	200	1	0.47	200	30	10			YES
52	RB540VM-30		—	TE-17	30	30	200	1	0.45	10	0.5	10			—
53	RB541VM-30		—	TE-17	30	30	200	1	0.64	200	10	10			—
54	RB550VM-30		—	TE-17	30	30	500	1	0.59	500	35	30			—
55	RB510VM-40		—	TE-17	40	40	100	0.5	0.48	10	2	40			—
56	RB511VM-40		—	TE-17	40	40	100	0.5	0.41	10	25	40			—
57	RB530VM-40		FH	TE-17	40	40	100	1	0.69	100	15	40			YES
58	RB531VM-40		—	TE-17	40	40	100	1	0.61	100	100	40			—
59	RB500VM-40		FH	TE-17	45	40	100	1	0.45	10	1	10			YES
60	RB501VM-40		FH	TE-17	45	40	100	1	0.55	100	30	10			YES
61	RB540VM-40		—	TE-17	40	40	200	1	0.71	100	15	40			—
62	RB541VM-40		—	TE-17	40	40	200	1	0.61	100	100	40			—
63	RB520VM-40		FH	TE-17	40	40	200	1	0.55	100	10	40			YES
64	RB521VM-40		FH	TE-17	40	40	200	1	0.54	200	90	40			YES
65	RB550VM-40		—	TE-17	40	40	200	1	0.51	200	40	40			—
66	RB551VM-40		FH	TE-17	40	40	200	1	0.43	200	300	40			YES
67	RB560VM-40		FH	TE-17	40	40	500	2	0.64	500	40	40			YES
68	RB561VM-40		—	TE-17	40	40	500	2	0.56	500	300	40			—
69	RB411VAM-50		—	TR	50	20	500	3	0.5	500	30	10	SOD-323HE (TUMD2M)		—
70	RB162VAM-20		—	TR	25	20	1,000	5	0.4	1,000	1,200	20			—
71	RB161VAM-20		—	TR	30	20	1,000	5	0.42	1,000	1,000	20			—
72	RBE1VAM20A		—	TR	30	20	1,000	3	0.53	1,000	200	20			—
73	RBE2VAM20A		—	TR	30	20	2,000	5	0.46	2,000	700	20			—
74	RSX051VAM30		—	TR	30	30	500	5	0.39	500	200	30			—
75	RSX051VYM30	—	FH	TR	30	30	500	5	0.39	500	200	30			YES
76	RSX071VAM30	*	—	TR	30	30	700	5	0.42	700	200	30			—
77	RSX071VYM30	—	FH	TR	30	30	700	5	0.42	700	200	30			YES
78	RB168VAM-30	*	—	TR	30	30	1,000	5	0.73	1,000	0.3	30			—
79	RB168VYM-30	—	FH	TR	30	30	1,000	5	0.73	1,000	0.3	30			YES
80	RB550VAM-30	*	—	TR	30	30	1,000	5	0.52	1,000	30	10			—
81	RB550VYM-30	—	FH	TR	30	30	1,000	3	0.52	1,000	30	10			YES
82	RSX101VAM30	*	—	TR	30	30	1,000	5	0.47	1,000	200	30			—
83	RSX101VYM30	—	FH	TR	30	30	1,000	5	0.47	1,000	200	30			YES
84	RSX201VAM30	*	—	TR	30	30	1,500	8	0.46	1,500	300	30			—
85	RSX201VYM30	—	FH	TR	30	30	1,500	8	0.46	1,500	300	30			YES
86	RB400VAM-50	*	—	TR	50	40	500	3	0.55	500	50	30			—
87	RB400VYM-50	—	FH	TR	50	40	500	3	0.55	500	50	30			YES

*一般产品的产品性能代码为空白。
*1 每个元件的平均输出电流为Io(1个元件)、1/2 Io(2个元件)或1/3 Io(3个元件)。
*2 每个元件的规格。
注：(　)内表示ROHM封装。

肖特基势垒二极管
例: RB168VYM-60 FH TR
型号 产品性能代码 包装代码

小信号肖特基势垒二极管 3

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25˚C)				Electrical Characteristics (T_j=25˚C)*2				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O*1 (mA)	I_{FSM} (A)*2 60Hz.1 ∿	V_F (V) Max		I_R (μA) Max				
		General	Automotive							I_F (mA)		V_R (V)			
88	RB160VAM-40	*	–	TR	40	40	1,000	10	0.55	700	50	40	SOD-323HE (TUMD2M)		–
89	RB160VYM-40	–	FH	TR	40	40	1,000	10	0.55	700	50	40			YES
90	RB168VAM-40	*	–	TR	40	40	1,000	5	0.79	1,000	0.5	40			–
91	RB168VYM-40	–	FH	TR	40	40	1,000	5	0.79	1,000	0.5	40			YES
92	RB160VAM-60	*	–	TR	60	60	1,000	5	0.67	1,000	40	60			–
93	RB168VAM-60	*	–	TR	60	60	1,000	5	0.82	1,000	1	60			–
94	RB168VYM-60	–	FH	TR	60	60	1,000	5	0.82	1,000	1	60			YES
95	RB021VAM90	*	–	TR	90	90	200	5	0.49	200	900	90			–
96	RB578VAM100	*	–	TR	100	100	700	5	0.85	700	0.2	100			–
97	RB578VYM100	–	FH	TR	100	100	700	5	0.85	700	0.2	100			YES
98	RB168VAM100	*	–	TR	100	100	1,000	5	0.84	1,000	0.3	100			–
99	RB168VYM100	–	FH	TR	100	100	1,000	5	0.84	1,000	0.3	100			YES
100	RB558VAM150	*	–	TR	150	150	500	3	0.95	500	0.5	150			–
101	RB168VAM150	*	–	TR	150	150	1,000	5	0.89	1,000	1	150			–
102	RB168VYM150	–	FH	TR	150	150	1,000	5	0.89	1,000	1	150			YES
103	RB715WM	*	FH	TL	40	40	30*2	0.2	0.37	1	1	10	SOT-416FL (EMD3F)		YES
104	RB715UM	*	–	TL	40	40	30	0.2	0.37	1	1	10	SOT-323FL (UMD3F)		–
105	RB508FM-40C	–	FH	T106	40	40	80	1	0.48	1	0.035	30	SOT-323 (UMD3)		YES
106	RB715FM-40	*	FH	T106	40	40	30	0.2	0.37	1	1	10			YES
107	BAT54CHY		FH	T116	30	30	200*2	0.6	0.8	100	2	25	SOT-23 (SSD3)		YES
108	BAS40-05HY		FH	T116	40	40	120*2	0.6	0.5	10	1	30			YES
109	RB557WM		–	TL	–	30	100*2	0.5	0.49	100	10	10	SOT-416FL (EMD3F)		–
110	RB717UM		–	TL	45	40	30*2	0.2	0.37	1	1	30	SOT-323FL (UMD3F)		–
111	RB508FM-40A	–	FH	T106	40	40	80	1	0.48	1	0.035	30	SOT-323 (UMD3)		YES
112	BAT54AHY	*	FH	T116	30	30	200*2	0.6	0.8	100	2	25	SOT-23 (SSD3)		YES
113	BAS40-06HY		FH	T116	40	40	120*2	0.6	0.5	10	1	30			YES
114	RB548WM		–	TL	–	30	100*2	0.5	0.45	10	0.5	10	SOT-416FL (EMD3F)		–
115	RB558WM		–	TL	–	30	100*2	0.5	0.49	100	10	10			–
116	RB706WM-40		–	TL	45	40	30*2	0.2	0.37	1	0.5	30			–
117	RB706UM-40		–	TL	45	40	30*2	0.2	0.37	1	1	30	SOT-323FL (UMD3F)		–
118	RB508FM-40S	–	FH	T106	40	40	80	1	0.48	1	0.035	30	SOT-323 (UMD3)		YES
119	BAT54SHY	*	FH	T116	30	30	200*2	0.6	0.8	100	2	25	SOT-23 (SSD3)		YES
120	BAS40-04HY		FH	T116	40	40	120*2	0.6	0.5	10	1	30			YES
121	RB451UM		–	TL	40	40	100	1	0.45	100	90	40	SOT-323FL (UMD3F)		–
122	RB450UM		–	TL	45	40	100	1	0.55	100	10	40			–
123	RB461FM		FH	T106	25	20	700	3	0.49	700	200	20	SOT-323 (UMD3)		YES
124	RB508FM-40	–	FH	T106	40	40	80	1	0.48	1	0.035	30			YES
125	BAT54HY	*	FH	T116	30	30	200*2	0.6	0.8	100	2	25	SOT-23 (SSD3)		YES
126	BAS40HY		FH	T116	40	40	120	0.6	0.5	10	1	30			YES

*一般产品的产品性能代码为空白。
*1 每个元件的平均输出电流为Io(1个元件)、1/2 Io(2个元件)或1/3 Io(3个元件)。
*2 每个元件的规格。
注：(　)内表示ROHM封装。

肖特基势垒二极管

●中功率肖特基势垒二极管(高效率型)一览表

V_R (V)	I_O (A)	Surface Mount type															
		2513 size		3516 size						4725 size						5026 size	
																	
		(PMDE)		SOD-123FL (PMDU)				SOD-123FL (PMDUP)		SOD-128 (PMDTM)				SOD-128 (PMDTP)		DO-214AC SMA (PMDS)	
		Low I_R type		Low V_F/Low I_R type		Low I_R type		Ultra Low I_R type		Low V_F/Low I_R type		Low I_R type		Ultra Low I_R type		Low V_F/Low I_R type	
20	5									RSX501LAM20	2						
30	1			RSX101MM-30	1												
	2									RSX201LAM30 RSX205LAM30	3 4					RSX201L-30 RSX205L-30	6 7
	3									RSX301LAM30	5					RSX301L-30	8
100	2	YQ2VWM10B	9			YQ2MM10A	10										
	3											YQ3LAM10D	11				
200	2							RSX068MP2S	12								
	3													RSX048LAP2S RSX058LAP2S	13 14		
	5													RSX088LAP2S	15		

注：(　)内表示ROHM封装。

●中功率肖特基势垒二极管(标准品)一览表

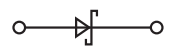
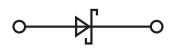
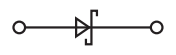
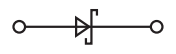
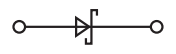
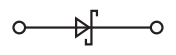
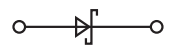
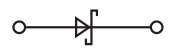
V_R (V)	I_O (A)	Surface Mount type																							
		2513 size				3516 size						4725 size						5026 size				5336 size			
																									
		(PMDE)				SOD-123FL (PMDU)						SOD-128 (PMDTM)						DO-214AC SMA (PMDS)				DO-214AA SMB (SMBP)			
		Low V_F type		Ultra Low I_R type		Ultra Low V_F type		Low V_F type		Ultra Low I_R type		Ultra Low V_F type		Low V_F type		Ultra Low I_R type		Low V_F type		Ultra Low I_R type		Low V_F type		Ultra Low I_R type	
20	1					RBS1MM40A	16					RBS1LAM40A	22												
	2					RBS2MM40A RBS2MM40B RBS2MM40C	17 18 19					RBS2LAM40A RBS2LAM40B RBS2LAM40C	23 24 25												
	3					RBS3MM40A RBS3MM40B	20 21					RBS3LAM40A RBS3LAM40B RBS3LAM40C	26 27 28												
	5											RBS5LAM40A	29												
30	1	RBR1VWM30A	30	RB168VWM-30	97			RBR1MM30A	36	RB168MM-30	107			RBR1LAM30A	53	RB168LAM-30	117	RBR1L30A	72	RB168L-30	137				
	2	RBR2VWM30A	31	RB068VWM-30	98			RBR2MM30A RBR2MM30B	37 38	RB068MM-30	108			RBR2LAM30A	54	RB068LAM-30	118	RBR2L30A	73	RB068L-30	138	New RBR2LB30A	91		
	3							RBR3MM30A	39					RBR3LAM30A RBR3LAM30B	55 56	RB058LAM-30	119	RBR3L30A RBR3L30B	74 75			New RBR3LB30B	92		
	5													RBR5LAM30A RBR5LAM30B	57 58	RB088LAM-30	120	RBR5L30A RBR5L30B	76 77						
40	1	RBR1VWM40A	32	RB168VWM-40	99			RBR1MM40A	40	RB168MM-40	109			RBR1LAM40A	59	RB168LAM-40	121	RBR1L40A	78	RB168L-40	139				
	2	RBR2VWM40A	33	RB068VWM-40	100			RBR2MM40A RBR2MM40B RBR2MM40C	41 42 43	RB068MM-40	110			RBR2LAM40A	60	RB068LAM-40	122	RBR2L40A	79	RB068L-40	140	New RBR2LB40C	93		
	3							RBR3MM40A RBR3MM40B	44 45					RBR3LAM40A RBR3LAM40B RBR3LAM40C	61 62 63	RB058LAM-40	123	RBR3L40A RBR3L40B RBR3L40C	80 81 82	RB058L-40	141	New RBR3LB40C	94		
	5													RBR5LAM40A	64	RB088LAM-40	124	RBR5L40A	83						
60	1	RBR1VWM60A	34	RB168VWM-60	101			RBR1MM60A	46	RB168MM-60	111			RBR1LAM60A	65	RB168LAM-60	125	RBR1L60A	84	RB168L-60	142				
	2	RBR2VWM60A	35	RB068VWM-60	102			RBR2MM60A RBR2MM60B RBR2MM60C	47 48 49	RB068MM-60	112			RBR2LAM60A RBR2LAM60B	66 67	RB068LAM-60	126	RBR2L60A RBR2L60B	85 86	RB068L-60	143	New RBR2LB60B	95		
	3							RBR3MM60A RBR3MM60B	50 51					RBR3LAM60A RBR3LAM60B	68 69	RB058LAM-60	127	RBR3L60A RBR3L60B	87 88	RB058L-60	144	New RBR3LB60B	96		
	5													RBR5LAM60A	70	RB088LAM-60	128	RBR5L60A	89						
90	1							RB160MM-90	52					RB160LAM-90	71			RB160L-90	90						
100	1			RB168VWM100	103					RB168MM100	113					RB168LAM100	129			RB168L100	145				
	2			RB068VWM100	104					RB068MM100	114					RB068LAM100	130			RB068L100	146			New RB068LB100	150
	3															RB058LAM100	131							New RB058LB100	151
	5															RB088LAM100	132								
150	1			RB168VWM150	105					RB168MM150	115					RB168LAM150	133			RB168L150	147				
	2			RB068VWM150	106											RB068LAM150	134			RB068L150	148				
	3															RB058LAM150	135			RB058L150	149				
	5															RB088LAM150	136								
200	1									RB168MM200	116														

注：(　)内表示ROHM封装。

肖特基势垒二极管

肖特基势垒二极管
例: R S X 1 0 1 M M – 3 0 T F T R
型号 产品性能代码 包装代码

中功率肖特基势垒二极管(高效率型)

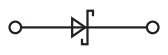
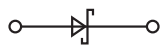
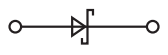
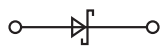
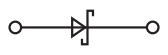
Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25˚C)				Electrical Characteristics (T_j=25˚C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O (A)	I_{FSM} (A) 60Hz.1∿	V_F (V) Max		I_R (mA) Max				
		General	Automotive							I_F (A)		V_R (V)			
低V_F/低I_R型															
1	**RSX101MM-30**	*	TF	TR	30	30	1	45	0.39	1	0.2	30	SOD-123FL (PMDU)		YES
2	**RSX501LAM20**	*	–	TR	20	20	5	100	0.39	3	0.5	20	SOD-128 (PMDTM)		–
3	**RSX201LAM30**		TF	TR	30	30	2	60	0.44	2	0.15	30			YES
4	**RSX205LAM30**		TF	TR	30	30	2	60	0.49	2	0.2	30			YES
5	**RSX301LAM30**		TF	TR	30	30	3	100	0.42	3	0.2	15			YES
6	**RSX201L-30**	–	DD	TE25	30	30	2	60	0.44	2	0.15	30	DO-214AC SMA (PMDS)		YES
7	**RSX205L-30**		TF	TE25	30	30	2	60	0.49	2	0.2	30			YES
8	**RSX301L-30**		DD	TE25	30	30	3	70	0.42	3	0.2	30			YES
低I_R型															
9	**YQ2VWM10B**	*	TF	TR	100	100	2	30	0.77	2	0.01	100	(PMDE)		YES
10	**YQ2MM10A**	*	TF	TR	100	100	2	30	0.77	2	0.01	100	SOD-123FL (PMDU)		YES
11	**YQ3LAM10D**	*	TF	TR	100	100	3	80	0.64	3	0.03	100	SOD-128 (PMDTM)		YES
超低I_R型															
12	**RSX068MP2S**	*	–	TR	200	200	2	50	0.89	2	0.0001	200	SOD-123FL (PMDUP)		–
13	**RSX048LAP2S**	*	–	TR	200	200	3	75	0.87	3	0.0002	200	SOD-128 (PMDTP)		–
14	**RSX058LAP2S**		–	TR	200	200	3	50	0.92	3	0.0001	200			–
15	**RSX088LAP2S**		–	TR	200	200	5	75	0.92	5	0.0002	200			–

*一般产品的产品性能代码为空白。
注：(　)内表示ROHM封装。

肖特基势垒二极管

肖特基势垒二极管
例: R B R 1 V W M 3 0 A T F T R
型号 产品性能代码 包装代码

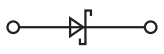
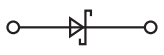
中功率肖特基势垒二极管(标准品) 1

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25˚C)				Electrical Characteristics (T_j=25˚C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O (A)	I_{FSM} (A) 60Hz.1 ⏦	V_F (V) Max		I_R (mA) Max				
		General	Automotive							I_F (A)		V_R (V)			
超低V_F型															
16	RBS1MM40A	*	–	TR	40	20	1	25	0.38	1	0.4	20	SOD-123FL (PMDU)		–
17	RBS2MM40A		–	TR	40	20	2	25	0.48	2	0.4	20			–
18	RBS2MM40B		–	TR	40	20	2	35	0.41	2	0.5	20			–
19	RBS2MM40C		–	TR	40	20	2	45	0.39	2	0.6	20			–
20	RBS3MM40A		–	TR	40	20	3	35	0.49	3	0.5	20			–
21	RBS3MM40B		–	TR	40	20	3	45	0.45	3	0.6	20			–
22	RBS1LAM40A	*	–	TR	40	20	1	40	0.38	1	0.4	20	SOD-128 (PMDTM)		–
23	RBS2LAM40A		–	TR	40	20	2	40	0.48	2	0.4	20			–
24	RBS2LAM40B		–	TR	40	20	2	50	0.41	2	0.5	20			–
25	RBS2LAM40C		–	TR	40	20	2	80	0.37	2	0.8	20			–
26	RBS3LAM40A		–	TR	40	20	3	50	0.49	3	0.5	20			–
27	RBS3LAM40B		–	TR	40	20	3	60	0.45	3	0.6	20			–
28	RBS3LAM40C		–	TR	40	20	3	80	0.4	3	0.8	20			–
29	RBS5LAM40A		–	TR	40	20	5	80	0.49	5	0.8	20			–
低V_F型															
30	RBR1VWM30A	*	TF	TR	30	30	1	30	0.48	1	0.05	30	(PMDE)		YES
31	RBR2VWM30A		TF	TR	30	30	2	30	0.53	2	0.05	30			YES
32	RBR1VWM40A		TF	TR	40	40	1	20	0.52	1	0.05	40			YES
33	RBR2VWM40A		TF	TR	40	40	2	20	0.62	2	0.05	40			YES
34	RBR1VWM60A		TF	TR	60	60	1	20	0.53	1	0.075	60			YES
35	RBR2VWM60A		TF	TR	60	60	2	20	0.65	2	0.075	60			YES
36	RBR1MM30A	*	TF	TR	30	30	1	30	0.48	1	0.05	30	SOD-123FL (PMDU)		YES
37	RBR2MM30A		TF	TR	30	30	2	30	0.53	2	0.05	30			YES
38	RBR2MM30B		TF	TR	30	30	2	30	0.49	2	0.08	30			YES
39	RBR3MM30A		TF	TR	30	30	3	30	0.51	3	0.1	30			YES
40	RBR1MM40A		TF	TR	40	40	1	20	0.52	1	0.05	40			YES
41	RBR2MM40A		TF	TR	40	40	2	20	0.62	2	0.05	40			YES
42	RBR2MM40B		TF	TR	40	40	2	30	0.55	2	0.08	40			YES
43	RBR2MM40C		TF	TR	40	40	2	30	0.52	2	0.1	40			YES
44	RBR3MM40A		TF	TR	40	40	3	30	0.62	3	0.08	40			YES
45	RBR3MM40B		TF	TR	40	40	3	30	0.58	3	0.1	40			YES
46	RBR1MM60A		TF	TR	60	60	1	20	0.53	1	0.075	60			YES
47	RBR2MM60A		TF	TR	60	60	2	20	0.65	2	0.075	60			YES
48	RBR2MM60B		TF	TR	60	60	2	30	0.58	2	0.1	60			YES
49	RBR2MM60C		TF	TR	60	60	2	30	0.55	2	0.12	60			YES
50	RBR3MM60A		TF	TR	60	60	3	30	0.66	3	0.1	60			YES
51	RBR3MM60B		TF	TR	60	60	3	30	0.61	3	0.12	60			YES
52	RB160MM-90		TF	TR	90	90	1	30	0.73	1	0.1	90			YES
53	RBR1LAM30A	*	TF	TR	30	30	1	40	0.48	1	0.05	30	SOD-128 (PMDTM)		YES
54	RBR2LAM30A		TF	TR	30	30	2	45	0.49	2	0.08	30			YES
55	RBR3LAM30A		TF	TR	30	30	3	40	0.58	3	0.05	30			YES
56	RBR3LAM30B		TF	TR	30	30	3	45	0.53	3	0.08	30			YES
57	RBR5LAM30A		TF	TR	30	30	5	75	0.54	5	0.1	30			YES
58	RBR5LAM30B		TF	TR	30	30	5	100	0.49	5	0.15	30			YES
59	RBR1LAM40A		TF	TR	40	40	1	40	0.52	1	0.05	40			YES
60	RBR2LAM40A		TF	TR	40	40	2	45	0.55	2	0.08	40			YES
61	RBR3LAM40A		TF	TR	40	40	3	40	0.69	3	0.05	40			YES
62	RBR3LAM40B		TF	TR	40	40	3	45	0.62	3	0.08	40			YES
63	RBR3LAM40C		TF	TR	40	40	3	75	0.55	3	0.1	40			YES
64	RBR5LAM40A		TF	TR	40	40	5	100	0.53	5	0.2	40			YES
65	RBR1LAM60A		TF	TR	60	60	1	40	0.53	1	0.075	60			YES
66	RBR2LAM60A		TF	TR	60	60	2	40	0.65	2	0.075	60			YES
67	RBR2LAM60B		TF	TR	60	60	2	75	0.52	2	0.15	60			YES
68	RBR3LAM60A		TF	TR	60	60	3	45	0.66	3	0.1	60			YES
69	RBR3LAM60B		TF	TR	60	60	3	75	0.56	3	0.15	60			YES
70	RBR5LAM60A		TF	TR	60	60	5	100	0.55	5	0.25	60			YES
71	RB160LAM-90		TF	TR	95	90	1	50	0.73	1	0.1	90			YES

*一般产品的产品性能代码为空白。
注：(　)内表示ROHM封装。

肖特基势垒二极管
例: RBR1L30A DD TE25
型号　产品性能代码　包装代码

中功率肖特基势垒二极管(标准品) 2

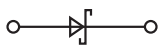
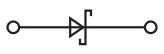
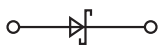
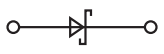
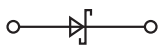
Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25˚C)				Electrical Characteristics (T_j=25˚C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code General	Grade Code Automotive	Taping Code	V_{RM} (V)	V_R (V)	I_O (A)	I_{FSM} (A) 60Hz.1 ∿	V_F (V) Max	I_F (A)	I_R (mA) Max	V_R (V)			
低V_F型															
72	RBR1L30A	–	DD	TE25	30	30	1	30	0.48	1	0.05	30	DO-214AC SMA (PMDS)		YES
73	RBR2L30A		DD	TE25	30	30	2	40	0.49	2	0.08	30			YES
74	RBR3L30A		DD	TE25	30	30	3	30	0.58	3	0.05	30			YES
75	RBR3L30B		DD	TE25	30	30	3	40	0.53	3	0.08	30			YES
76	RBR5L30A		DD	TE25	30	30	5	50	0.54	5	0.1	30			YES
77	RBR5L30B		DD	TE25	30	30	5	50	0.49	5	0.15	30			YES
78	RBR1L40A		DD	TE25	40	40	1	30	0.52	1	0.05	40			YES
79	RBR2L40A		DD	TE25	40	40	2	40	0.55	2	0.08	40			YES
80	RBR3L40A		DD	TE25	40	40	3	30	0.69	3	0.05	40			YES
81	RBR3L40B		DD	TE25	40	40	3	40	0.62	3	0.08	40			YES
82	RBR3L40C		DD	TE25	40	40	3	50	0.55	3	0.1	40			YES
83	RBR5L40A		DD	TE25	40	40	5	50	0.53	5	0.2	40			YES
84	RBR1L60A		DD	TE25	60	60	1	30	0.53	1	0.075	60			YES
85	RBR2L60A		DD	TE25	60	60	2	30	0.65	2	0.075	60			YES
86	RBR2L60B		DD	TE25	60	60	2	50	0.52	2	0.15	60			YES
87	RBR3L60A		DD	TE25	60	60	3	40	0.66	3	0.1	60			YES
88	RBR3L60B		DD	TE25	60	60	3	50	0.56	3	0.15	60			YES
89	RBR5L60A		DD	TE25	60	60	5	50	0.55	5	0.25	60			YES
90	RB160L-90		TF	TE25	95	90	1	30	0.73	1	0.1	90			YES
91	*New* RBR2LB30A	*	–	TBR1	30	30	2	40	0.49	2	0.08	30	DO-214AA SMB (SMBP)		–
92	*New* RBR3LB30B		–	TBR1	30	30	3	40	0.53	3	0.08	30			–
93	*New* RBR2LB40C		–	TBR1	40	40	2	55	0.52	2	0.1	40			–
94	*New* RBR3LB40C		–	TBR1	40	40	3	55	0.55	3	0.1	40			–
95	*New* RBR2LB60B		–	TBR1	60	60	2	55	0.52	2	0.15	60			–
96	*New* RBR3LB60B		–	TBR1	60	60	3	55	0.56	3	0.15	60			–

*一般产品的产品性能代码为空白。
注：(　)内表示ROHM封装。

肖特基势垒二极管

肖特基势垒二极管
例: R B 1 6 8 V W M − 3 0 T F T R
型号 产品性能代码 包装代码

中功率肖特基势垒二极管(标准品) 3

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25˚C)				Electrical Characteristics (T_j=25˚C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O (A)	I_{FSM} (A) 60Hz.1 ∿	V_F (V) Max		I_R (mA) Max				
		General	Automotive							I_F (A)		V_R (V)			
超低I_R型															
97	RB168VWM-30	*	TF	TR	30	30	1	30	0.69	1	0.0006	30	(PMDE)		YES
98	RB068VWM-30		TF	TR	30	30	2	30	0.75	2	0.0006	30			YES
99	RB168VWM-40		TF	TR	40	40	1	30	0.69	1	0.0005	40			YES
100	RB068VWM-40		TF	TR	40	40	2	30	0.79	2	0.0005	40			YES
101	RB168VWM-60		TF	TR	60	60	1	30	0.76	1	0.0005	60			YES
102	RB068VWM-60		TF	TR	60	60	2	30	0.84	2	0.0005	60			YES
103	RB168VWM100		TF	TR	100	100	1	25	0.84	1	0.0003	100			YES
104	RB068VWM100		TF	TR	100	100	2	25	0.94	2	0.0003	100			YES
105	RB168VWM150		TF	TR	150	150	1	25	0.89	1	0.001	150			YES
106	RB068VWM150		TF	TR	150	150	2	25	0.96	2	0.001	150			YES
107	RB168MM-30	*	TF	TR	30	30	1	30	0.69	1	0.0006	30	SOD-123FL (PMDU)		YES
108	RB068MM-30		TF	TR	30	30	2	50	0.7	2	0.0008	30			YES
109	RB168MM-40		TF	TR	40	40	1	40	0.65	1	0.00055	40			YES
110	RB068MM-40		TF	TR	40	40	2	40	0.725	2	0.00055	40			YES
111	RB168MM-60		TF	TR	60	60	1	40	0.68	1	0.0015	60			YES
112	RB068MM-60		TF	TR	60	60	2	40	0.765	2	0.0015	60			YES
113	RB168MM100		TF	TR	100	100	1	40	0.81	1	0.0004	100			YES
114	RB068MM100		TF	TR	100	100	2	40	0.87	2	0.0004	100			YES
115	RB168MM150		TF	TR	150	150	1	35	0.84	1	0.004	150			YES
116	RB168MM200		TF	TR	200	200	1	35	0.89	1	0.00085	200			YES
117	RB168LAM-30	*	TF	TR	30	30	1	40	0.69	1	0.0006	30	SOD-128 (PMDTM)		YES
118	RB068LAM-30		TF	TR	30	30	2	50	0.7	2	0.0008	30			YES
119	RB058LAM-30		TF	TR	30	30	3	80	0.68	3	0.0025	30			YES
120	RB088LAM-30		TF	TR	30	30	5	80	0.69	5	0.0025	30			YES
121	RB168LAM-40		TF	TR	40	40	1	40	0.69	1	0.0005	40			YES
122	RB068LAM-40		TF	TR	40	40	2	50	0.69	2	0.001	40			YES
123	RB058LAM-40		TF	TR	40	40	3	90	0.69	3	0.0025	40			YES
124	RB088LAM-40		TF	TR	40	40	5	90	0.71	5	0.0036	40			YES
125	RB168LAM-60		TF	TR	60	60	1	40	0.68	1	0.0015	60			YES
126	RB068LAM-60		TF	TR	60	60	2	70	0.68	2	0.002	60			YES
127	RB058LAM-60		TF	TR	60	60	3	90	0.64	3	0.004	60			YES
128	RB088LAM-60		TF	TR	60	60	5	90	0.71	5	0.004	60			YES
129	RB168LAM100		TF	TR	100	100	1	40	0.81	1	0.0004	100			YES
130	RB068LAM100		TF	TR	100	100	2	70	0.81	2	0.0015	100			YES
131	RB058LAM100		TF	TR	100	100	3	80	0.81	3	0.003	100			YES
132	RB088LAM100		TF	TR	100	100	5	80	0.87	5	0.003	100			YES
133	RB168LAM150		TF	TR	150	150	1	50	0.84	1	0.0025	150			YES
134	RB068LAM150		TF	TR	150	150	2	70	0.81	2	0.003	150			YES
135	RB058LAM150		TF	TR	150	150	3	80	0.84	3	0.003	150			YES
136	RB088LAM150		TF	TR	150	150	5	80	0.9	5	0.003	150			YES
137	RB168L-30	–	TF	TE25	30	30	1	30	0.69	1	0.0006	30	DO-214AC SMA (PMDS)		YES
138	RB068L-30		DD	TE25	30	30	2	60	0.7	2	0.0008	30			YES
139	RB168L-40		TF	TE25	40	40	1	50	0.65	1	0.00055	40			YES
140	RB068L-40		DD	TE25	40	40	2	50	0.69	2	0.001	40			YES
141	RB058L-40		DD	TE25	40	40	3	100	0.7	3	0.005	40			YES
142	RB168L-60		TF	TE25	60	60	1	50	0.68	1	0.0015	60			YES
143	RB068L-60		DD	TE25	60	60	2	90	0.68	2	0.002	60			YES
144	RB058L-60		DD	TE25	60	60	3	120	0.64	3	0.004	60			YES
145	RB168L100		DD	TE25	100	100	1	50	0.81	1	0.0004	100			YES
146	RB068L100		DD	TE25	100	100	2	110	0.79	2	0.003	100			YES
147	RB168L150		DD	TE25	150	150	1	50	0.84	1	0.004	150			YES
148	RB068L150		DD	TE25	150	150	2	90	0.81	2	0.003	150			YES
149	RB058L150		DD	TE25	150	150	3	90	0.85	3	0.003	150			YES
150	New RB068LB100	*	–	TBR1	100	100	2	90	0.81	2	0.0015	100	DO-214AA SMB (SMBP)		–
151	New RB058LB100		–	TBR1	100	100	3	90	0.84	3	0.0015	100			–

*一般产品的产品性能代码为空白。
注：(　)内表示ROHM封装。

肖特基势垒二极管

●功率肖特基势垒二极管(高效率型)一览表

V_R (V)	I_O (A)	Surface Mount type							
									
		TO-277A (TO-277GE)		TO-252AA D-PAK (TO-252GE)		TO-252AA D-PAK (TO-252M)		TO-263AB D2PAK (TO-263L)	
		Low I_R type		Low I_R type		Low I_R type		Low I_R type	
100	10	YQ10RSM10SD	1						
	20			YQ20BGE10SD	2	YQ20BM10SD	3	YQ20NL10SE YQ20NL10CD	4 6
	30							YQ30NL10SE	5

注：(　)内表示ROHM封装。

●功率肖特基势垒二极管(标准品)一览表 1

V_R (V)	I_O (A)	Surface Mount type																	
																			
		TO-277A (TO-277GE)						TO-252AA D-PAK (TO-252GE)						TO-252AA D-PAK (TO-252M)					
		Low V_F type		Low I_R type		Ultra Low I_R type		Low V_F type		Low I_R type		Ultra Low I_R type		Low V_F type		Low I_R type		Ultra Low I_R type	
30	5											RB078BGE30S	99					New RB078BM30S	112
	6											RB098BGE-30	100					New RB098BM-30	117
	10							RBR10BGE30A	10			RB088BGE-30	101	RBR10BM30A	19			New RB088BM-30	118
	15							RBR15BGE30A	11					RBR15BM30A	20				
	20							RBR20BGE30A	12					RBR20BM30A	21				
40	3	RBR3RSM40B	7																
	5	RBR5RSM40B	8															New RB075BM40S	113
	6											RB098BGE-40	102					New RB098BM-40	119
	10	RBR10RSM40B	9					RBR10BGE40A	13			RB088BGE-40	103	RBR10BM40A	22			New RB088BM-40	120
	15							RBR15BGE40A	14					RBR15BM40A	23				
	20							RBR20BGE40A	15					RBR20BM40A	24				
45	10									RBQ10BGE45A	55					RBQ10BM45A	63		
	15									RBQ15BGE45A	56					RBQ15BM45A	64		
	20									RBQ20BGE45A	57					RBQ20BM45A	65		
60	6											RB098BGE-60	104					New RB098BM-60	121
	10							RBR10BGE60A	16			RB088BGE-60	105	RBR10BM60A	25			New RB088BM-60	122
	15							RBR15BGE60A	17					RBR15BM60A	26				
	20							RBR20BGE60A	18					RBR20BM60A	27				
65	3			RBQ3RSM65B	49														
	5			RBQ5RSM65B	50														
	10			RBQ10RSM65B	51					RBQ10BGE65A	58					RBQ10BM65A	66		
	15									RBQ15BGE65A	59					RBQ15BM65A	67		
	20									RBQ20BGE65A	60					RBQ20BM65A	68		
100	3			RBQ3RSM10B	52	RB058RSM10S	91												
	5			RBQ5RSM10B	53	RB078RSM10S	92											New RB078BM10S	114
	6											RB098BGE100	106					New RB098BM100	123
	8					RB048RSM10S	93												
	10			RBQ10RSM10B	54	RB088RSM10S	94			RBQ10BGE10A	61	RB088BGE100	107			RBQ10BM100A	69	New RB088BM100	124
	15									RBQ15BGE10A	62					RBQ15BM100A	70		
	20															RBQ20BM100A	71		
150	3					RB058RSM15S	95												
	5					RB078RSM15S	96												
	6											RB098BGE150	108					New RB098BM150	125
	8					RB048RSM15S	97												
	10					RB088RSM15S	98					RB088BGE150	109					New RB088BM150	126
200	3											RSX058BGE2S	110					New RSX058BM2S	115
	5											RSX078BGE2S	111					New RSX078BM2S	116
	10																	New RB088BM200	127
	20																	New RB218BM200	128

注：(　)内表示ROHM封装。

肖特基势垒二极管

●功率肖特基势垒二极管(标准品)一览表 2

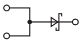
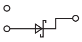
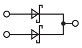
V_R (V)	I_O (A)	Surface Mount type								Through Hole type							
																	
		TO-263AB D2PAK (TO-263S)						TO-263AB D2PAK (TO-263L)		TO-220AB (TO-220FN) <3pin>						TO-220AB (TO-220FN) <2pin>	
		Low V_F type		Low I_R type		Ultra Low I_R type		Low I_R type		Low V_F type		Low I_R type		Ultra Low I_R type		Low I_R type	
30	10	**RBR10NS30A**	28			**RB088NS-30**	129			**RBR10T30A**	40			**RB088T-30**	152		
	20	**RBR20NS30A**	29			**RB218NS-30**	130			**RBR20T30A**	41			**RB218T-30**	153		
	30	**RBR30NS30A**	30			**RB228NS-30**	131			**RBR30T30A**	42			**RB228T-30**	154		
	40	**RBR40NS30A**	31			**RB238NS-30**	132							**RB238T-30**	155		
40	10	**RBR10NS40A**	32			**RB088NS-40**	133			**RBR10T40A**	43			**RB088T-40**	156		
	20	**RBR20NS40A**	33			**RB218NS-40**	134			**RBR20T40A**	44			**RB218T-40**	157		
	30	**RBR30NS40A**	34			**RB228NS-40**	135			**RBR30T40A**	45			**RB228T-40**	158		
	40	**RBR40NS40A**	35			**RB238NS-40**	136							**RB238T-40**	159		
45	10			**RBQ10NS45A**	72			*New* **RBQ10NL45B**	82			**RBQ10T45A**	84				
	16							*New* **RBQ16NL45B**	83								
	20			**RBQ20NS45A**	73							**RBQ20T45A**	85				
	30			**RBQ30NS45A** **RBQ30NS45B**	74 81							**RBQ30T45A**	86			**RBQ30TB45B**	90
60	10	**RBR10NS60A**	36			**RB088NS-60**	137			**RBR10T60A**	46			**RB088T-60**	160		
	20	**RBR20NS60A**	37			**RB218NS-60**	138			**RBR20T60A**	47			**RB218T-60**	161		
	30	**RBR30NS60A**	38			**RB228NS-60**	139			**RBR30T60A**	48			**RB228T-60**	162		
	40	**RBR40NS60A**	39			**RB238NS-60**	140							**RB238T-60**	163		
65	10			**RBQ10NS65A**	75							**RBQ10T65A**	87				
	20			**RBQ20NS65A**	76							**RBQ20T65A**	88				
	30			**RBQ30NS65A**	77							**RBQ30T65A**	89				
100	10			**RBQ10NS100A**	78	**RB088NS100**	141							**RB088T100**	164		
	20			**RBQ20NS100A**	79	**RB218NS100**	142							**RB218T100**	165		
	30			**RBQ30NS100A**	80	**RB228NS100** **RB298NS100**	143 144							**RB228T100** **RB298T100**	166 167		
	40					**RB238NS100**	145							**RB238T100**	168		
150	10					**RB088NS150**	146							**RB088T150**	169		
	20					**RB218NS150**	147							**RB218T150**	170		
	30					**RB228NS150**	148							**RB228T150**	171		
	40					**RB238NS150**	149							**RB238T150**	172		
200	10					**RB088NS200**	150										
	20					**RB218NS200**	151										

注：(　)内表示ROHM封装。

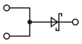
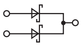
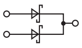
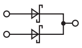
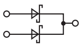
肖特基势垒二极管

肖特基势垒二极管
例: YQ20BM10SD FH TL
型号 产品性能代码 包装代码

功率肖特基势垒二极管(高效率型)

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25˚C)				Electrical Characteristics (T_j=25˚C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O*1 (A)	I_{FSM} (A)*2 60Hz.1∿	V_F (V) Max		I_R (mA) Max				
		General	Automotive							I_F (A)		V_R (V)			
低I_R型															
1	YQ10RSM10SD	*	TF	TL1	100	100	10	200	0.67	10	0.08	100	TO-277A (TO-277GE)		YES
2	YQ20BGE10SD	*	—	TL	100	100	20	150	0.86	20	0.08	100	TO-252AA D-PAK (TO-252GE)		—
3	YQ20BM10SD	—	FH	TL	100	100	20	150	0.86	20	0.08	100	TO-252AA D-PAK (TO-252M)		YES
4	YQ20NL10SE	*	FH	TL	100	100	20	200	0.86	20	0.08	100	TO-263AB D2PAK (TO-263L)		YES
5	YQ30NL10SE		FH	TL	100	100	30	200	0.86	30	0.15	100			YES
6	YQ20NL10CD		FH	TL	100	100	20	150	0.71	10	0.07	100			YES

功率肖特基势垒二极管(标准品) 1

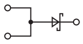
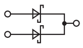
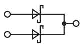
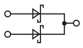
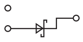
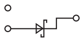
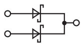
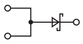
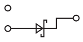
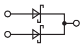
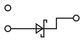
Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25˚C)				Electrical Characteristics (T_j=25˚C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O*1 (A)	I_{FSM} (A)*2 60Hz.1∿	V_F (V) Max		I_R (mA) Max				
		General	Automotive							I_F (A)		V_R (V)			
低V_F型															
7	RBR3RSM40B	*	TF	TL1	40	40	3	150	0.47	3	0.12	40	TO-277A (TO-277GE)		YES*3
8	RBR5RSM40B		TF	TL1	40	40	5	100	0.53	5	0.12	40			YES*3
9	RBR10RSM40B		TF	TL1	40	40	10	150	0.54	5	0.3	45			YES*3
10	RBR10BGE30A	*	—	TL	30	30	10	50	0.55	5	0.1	30	TO-252AA D-PAK (TO-252GE)		—
11	RBR15BGE30A		—	TL	30	30	15	100	0.51	7.5	0.2	30			—
12	RBR20BGE30A		—	TL	30	30	20	100	0.51	10	0.3	30			—
13	RBR10BGE40A		—	TL	40	40	10	50	0.62	5	0.12	40			—
14	RBR15BGE40A		—	TL	40	40	15	100	0.55	7.5	0.24	40			—
15	RBR20BGE40A		—	TL	40	40	20	100	0.55	10	0.36	40			—
16	RBR10BGE60A		—	TL	60	60	10	50	0.65	5	0.2	60			—
17	RBR15BGE60A		—	TL	60	60	15	100	0.58	7.5	0.4	60			—
18	RBR20BGE60A		—	TL	60	60	20	100	0.59	10	0.6	60			—
19	RBR10BM30A	—	FH	TL	30	30	10	50	0.55	5	0.1	30	TO-252AA D-PAK (TO-252M)		YES
20	RBR15BM30A		FH	TL	30	30	15	100	0.51	7.5	0.2	30			YES
21	RBR20BM30A		FH	TL	30	30	20	100	0.51	10	0.3	30			YES
22	RBR10BM40A		FH	TL	40	40	10	50	0.62	5	0.12	40			YES
23	RBR15BM40A		FH	TL	40	40	15	100	0.55	7.5	0.24	40			YES
24	RBR20BM40A		FH	TL	40	40	20	100	0.55	10	0.36	40			YES
25	RBR10BM60A		FH	TL	60	60	10	50	0.65	5	0.2	60			YES
26	RBR15BM60A		FH	TL	60	60	15	100	0.58	7.5	0.4	60			YES
27	RBR20BM60A		FH	TL	60	60	20	100	0.59	10	0.6	60			YES
28	RBR10NS30A	*	FH	TL	30	30	10	50	0.55	5	0.1	30	TO-263AB D2PAK (TO-263S)		YES
29	RBR20NS30A		FH	TL	30	30	20	100	0.55	10	0.2	30			YES
30	RBR30NS30A		FH	TL	30	30	30	100	0.55	15	0.3	30			YES
31	RBR40NS30A		FH	TL	30	30	40	100	0.52	20	0.6	30			YES
32	RBR10NS40A		FH	TL	40	40	10	50	0.62	5	0.12	40			YES
33	RBR20NS40A		FH	TL	40	40	20	100	0.62	10	0.24	40			YES
34	RBR30NS40A		FH	TL	40	40	30	100	0.62	15	0.36	40			YES
35	RBR40NS40A		FH	TL	40	40	40	100	0.55	20	0.43	40			YES
36	RBR10NS60A		FH	TL	60	60	10	50	0.65	5	0.2	60			YES
37	RBR20NS60A		FH	TL	60	60	20	100	0.64	10	0.4	60			YES
38	RBR30NS60A		FH	TL	60	60	30	100	0.67	15	0.6	60			YES
39	RBR40NS60A		FH	TL	60	60	40	100	0.6	20	0.8	60			YES
40	RBR10T30A	NZ	—	C9	30	30	10	50	0.55	5	0.1	30	TO-220AB (TO-220FN) <3pin>		—
41	RBR20T30A	NZ	—	C9	30	30	20	100	0.55	10	0.2	30			—
42	RBR30T30A	NZ	—	C9	30	30	30	100	0.55	15	0.3	30			—
43	RBR10T40A	NZ	—	C9	40	40	10	50	0.62	5	0.12	40			—
44	RBR20T40A	NZ	—	C9	40	40	20	100	0.62	10	0.24	40			—
45	RBR30T40A	NZ	—	C9	40	40	30	100	0.62	15	0.36	40			—
46	RBR10T60A	NZ	—	C9	60	60	10	50	0.65	5	0.2	60			—
47	RBR20T60A	NZ	—	C9	60	60	20	100	0.64	10	0.4	60			—
48	RBR30T60A	NZ	—	C9	60	60	30	100	0.67	15	0.6	60			—

*一般产品的产品性能代码为空白。
*1 每个元件的平均输出电流为Io(1个元件)、1/2Io(2个元件)。
*2 每个元件的规格。
*3 某些车载应用可能不适合。详情请咨询罗姆的销售人员。
注：( )内表示ROHM封装。

肖特基势垒二极管

肖特基势垒二极管
例: R B Q 1 0 B M 4 5 A　F H　T L
型号　产品性能代码　包装代码

功率肖特基势垒二极管(标准品) 2

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25˚C)				Electrical Characteristics (T_j=25˚C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O[*1] (A)	I_{FSM} (A)[*2] 60Hz.1∿	V_F (V) Max		I_R (mA) Max				
		General	Automotive							I_F (A)		V_R (V)			
低I_R型															
49	RBQ3RSM65B	*	TF	TL1	65	65	3	100	0.57	3	0.09	65	TO-277A (TO-277GE)		YES[*3]
50	RBQ5RSM65B		TF	TL1	65	65	5	100	0.66	5	0.09	65			YES[*3]
51	RBQ10RSM65B		TF	TL1	65	65	10	150	0.67	10	0.15	65			YES[*3]
52	RBQ3RSM10B		TF	TL1	100	100	3	100	0.70	3	0.08	100			YES[*3]
53	RBQ5RSM10B		TF	TL1	100	100	5	150	0.70	5	0.14	100			YES[*3]
54	RBQ10RSM10B		TF	TL1	100	100	10	200	0.70	10	0.25	100			YES[*3]
55	RBQ10BGE45A	*	–	TL	45	45	10	50	0.65	5	0.07	45	TO-252AA D-PAK (TO-252GE)		–
56	RBQ15BGE45A		–	TL	45	45	15	100	0.59	7.5	0.14	45			–
57	RBQ20BGE45A		–	TL	45	45	20	100	0.59	10	0.2	45			–
58	RBQ10BGE65A		–	TL	65	65	10	50	0.69	5	0.07	65			–
59	RBQ15BGE65A		–	TL	65	65	15	100	0.63	7.5	0.14	65			–
60	RBQ20BGE65A		–	TL	65	65	20	100	0.63	10	0.2	65			–
61	RBQ10BGE10A		–	TL	100	100	10	100	0.77	5	0.08	100			–
62	RBQ15BGE10A		–	TL	100	100	15	100	0.71	7.5	0.14	100			–
63	RBQ10BM45A	–	FH	TL	45	45	10	50	0.65	5	0.07	45	TO-252AA D-PAK (TO-252M)		YES
64	RBQ15BM45A		FH	TL	45	45	15	100	0.59	7.5	0.14	45			YES
65	RBQ20BM45A		FH	TL	45	45	20	100	0.59	10	0.2	45			YES
66	RBQ10BM65A		FH	TL	65	65	10	50	0.69	5	0.07	65			YES
67	RBQ15BM65A		FH	TL	65	65	15	100	0.63	7.5	0.14	65			YES
68	RBQ20BM65A		FH	TL	65	65	20	100	0.63	10	0.2	65			YES
69	RBQ10BM100A		FH	TL	100	100	10	100	0.77	5	0.08	100			YES
70	RBQ15BM100A		FH	TL	100	100	15	100	0.71	7.5	0.14	100			YES
71	RBQ20BM100A	*	FH	TL	100	100	20	100	0.69	10	0.2	100			YES
72	RBQ10NS45A		FH	TL	45	45	10	100	0.65	5	0.07	45	TO-263AB D2PAK (TO-263S)		YES
73	RBQ20NS45A		FH	TL	45	45	20	100	0.65	10	0.14	45			YES
74	RBQ30NS45A		FH	TL	45	45	30	100	0.65	15	0.2	45			YES
75	RBQ10NS65A		FH	TL	65	65	10	100	0.69	5	0.07	65			YES
76	RBQ20NS65A		FH	TL	65	65	20	100	0.69	10	0.14	65			YES
77	RBQ30NS65A		FH	TL	65	65	30	100	0.69	15	0.2	65			YES
78	RBQ10NS100A		FH	TL	100	100	10	100	0.77	5	0.08	100			YES
79	RBQ20NS100A		FH	TL	100	100	20	100	0.77	10	0.14	100			YES
80	RBQ30NS100A		FH	TL	100	100	30	100	0.77	15	0.2	100			YES
81	RBQ30NS45B		FH	TL	45	45	30	100	0.59	30	0.7	45			YES
82	New RBQ10NL45B	FNS	FHH	TL	45	45	10	150	0.62	10	0.1	45	TO-263AB D2PAK (TO-263L)		YES
83	New RBQ16NL45B	FNS	FHH	TL	45	45	16	150	0.61	16	0.1	45			YES
84	RBQ10T45A	NZ	–	C9	45	45	10	100	0.65	5	0.07	45	TO-220AB (TO-220FN) <3pin>		–
85	RBQ20T45A	NZ	–	C9	45	45	20	100	0.65	10	0.14	45			–
86	RBQ30T45A	NZ	–	C9	45	45	30	100	0.65	15	0.2	45			–
87	RBQ10T65A	NZ	–	C9	65	65	10	100	0.69	5	0.07	65			–
88	RBQ20T65A	NZ	–	C9	65	65	20	100	0.69	10	0.14	65			–
89	RBQ30T65A	NZ	–	C9	65	65	30	100	0.69	15	0.2	65			–
90	RBQ30TB45B	NZ	–	C9	45	45	30	100	0.59	30	0.7	45	TO-220AB (TO-220FN) <2pin>		–
超低I_R型															
91	RB058RSM10S	*	TF	TL1	100	100	3	120	0.81	3	0.0013	100	TO-277A (TO-277GE)		YES[*3]
92	RB078RSM10S		TF	TL1	100	100	5	120	0.84	5	0.0013	100			YES[*3]
93	RB048RSM10S		TF	TL1	100	100	8	160	0.84	8	0.0034	100			YES[*3]
94	RB088RSM10S		TF	TL1	100	100	10	220	0.84	10	0.0037	100			YES[*3]
95	RB058RSM15S		TF	TL1	150	150	3	120	0.83	3	0.0021	150			YES[*3]
96	RB078RSM15S		TF	TL1	150	150	5	120	0.87	5	0.0021	150			YES[*3]
97	RB048RSM15S		TF	TL1	150	150	8	160	0.88	8	0.0037	150			YES[*3]
98	RB088RSM15S		TF	TL1	150	150	10	220	0.88	10	0.0045	150			YES[*3]
99	RB078BGE30S		–	TL	35	30	5	50	0.72	5	0.005	30	TO-252AA D-PAK (TO-252GE)		–
100	RB098BGE-30		–	TL	35	30	6	50	0.72	3	0.0015	30	TO-252AA D-PAK (TO-252GE)		–
101	RB088BGE-30		–	TL	35	30	10	50	0.72	5	0.003	30			–
102	RB098BGE-40		–	TL	45	40	6	50	0.77	3	0.0015	40			–
103	RB088BGE-40		–	TL	45	40	10	50	0.77	5	0.003	40			–
104	RB098BGE-60		–	TL	60	60	6	50	0.83	3	0.0015	60			–
105	RB088BGE-60		–	TL	60	60	10	50	0.83	5	0.003	60			–
106	RB098BGE100		–	TL	110	100	6	100	0.77	3	0.003	100			–
107	RB088BGE100		–	TL	100	100	10	50	0.87	5	0.005	100			–
108	RB098BGE150		–	TL	150	150	6	100	0.83	3	0.007	150			–
109	RB088BGE150		–	TL	150	150	10	50	0.88	5	0.015	150			–
110	RSX058BGE2S		–	TL	200	200	3	50	0.87	3	0.0002	200			–
111	RSX078BGE2S		–	TL	200	200	5	50	0.92	5	0.0002	200			–

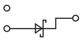
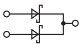
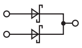
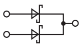
*一般产品的产品性能代码为空白。
*1 每个元件的平均输出电流为Io(1个元件)、1/2Io(2个元件)。
*2 每个元件的规格。
*3 某些车载应用可能不适合。详情请咨询罗姆的销售人员。
注：(　)内表示ROHM封装。

肖特基势垒二极管

例: R B 0 7 8 B M 3 0 S F H T L

型号 产品性能代码 包装代码

功率肖特基势垒二极管(标准品) 3

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25˚C)				Electrical Characteristics (T_j=25° C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O*1 (A)	I_{FSM} (A)*2 60Hz.1 ∿	V_F (V) Max		I_R (mA) Max				
		General	Automotive							I_F (A)		V_R (V)			
超低I_R型															
112	New RB078BM30S	FNS	FHH	TL	35	30	5	50	0.72	5	0.005	30	TO-252 (DPAK)		YES
113	New RB075BM40S	FNS	FHH	TL	40	40	5	50	0.75	5	0.005	40			YES
114	New RB078BM10S	FNS	FHH	TL	110	100	5	100	0.74	5	0.0064	100			YES
115	New RSX058BM2S	FNS	FHH	TL	200	200	3	50	0.87	3	0.0002	200			YES
116	New RSX078BM2S	FNS	FHH	TL	200	200	5	50	0.92	5	0.0002	200			YES
117	New RB098BM-30	FNS	FHH	TL	35	30	6	50	0.72	3	0.0015	30			YES
118	New RB088BM-30	FNS	FHH	TL	35	30	10	50	0.72	5	0.003	30			YES
119	New RB098BM-40	FNS	FHH	TL	45	40	6	50	0.77	3	0.0015	40			YES
120	New RB088BM-40	FNS	FHH	TL	45	40	10	50	0.77	5	0.003	40			YES
121	New RB098BM-60	FNS	FHH	TL	60	60	6	50	0.83	3	0.0015	60			YES
122	New RB088BM-60	FNS	FHH	TL	60	60	10	50	0.83	5	0.003	60			YES
123	New RB098BM100	FNS	FHH	TL	110	100	6	100	0.77	3	0.003	100			YES
124	New RB088BM100	FNS	FHH	TL	110	100	10	50	0.87	5	0.005	100			YES
125	New RB098BM150	FNS	FHH	TL	150	150	6	100	0.83	3	0.007	150			YES
126	New RB088BM150	FNS	FHH	TL	150	150	10	50	0.88	5	0.015	150			YES
127	New RB088BM200	FNS	FHH	TL	200	200	10	100	0.88	5	0.007	200			YES
128	New RB218BM200	FNS	FHH	TL	200	200	20	100	0.88	10	0.01	200			YES
129	RB088NS-30	*	FH	TL	35	30	10	50	0.72	5	0.003	30	TO-263AB D2PAK (TO-263S)		YES
130	RB218NS-30		FH	TL	35	30	20	100	0.72	10	0.005	30			YES
131	RB228NS-30		FH	TL	35	30	30	100	0.72	15	0.01	30			YES
132	RB238NS-30		FH	TL	35	30	40	100	0.75	20	0.012	30			YES
133	RB088NS-40		FH	TL	45	40	10	50	0.77	5	0.003	40			YES
134	RB218NS-40		FH	TL	45	40	20	100	0.77	10	0.005	40			YES
135	RB228NS-40		FH	TL	45	40	30	100	0.77	15	0.01	40			YES
136	RB238NS-40		FH	TL	45	40	40	100	0.8	20	0.012	40			YES
137	RB088NS-60		FH	TL	60	60	10	50	0.83	5	0.003	60			YES
138	RB218NS-60		FH	TL	60	60	20	100	0.83	10	0.005	60			YES
139	RB228NS-60		FH	TL	60	60	30	100	0.83	15	0.01	60			YES
140	RB238NS-60		FH	TL	60	60	40	100	0.86	20	0.012	60			YES
141	RB088NS100		FH	TL	110	100	10	100	0.87	5	0.005	100			YES
142	RB218NS100		FH	TL	110	100	20	100	0.87	10	0.007	100			YES
143	RB228NS100		FH	TL	110	100	30	100	0.87	5	0.005	100			YES
144	RB298NS100		FH	TL	110	100	30	100	0.87	15	0.01	100			YES
145	RB238NS100		FH	TL	110	100	40	100	0.86	20	0.02	100			YES
146	RB088NS150		FH	TL	150	150	10	50	0.88	5	0.015	150			YES
147	RB218NS150		FH	TL	150	150	20	100	0.88	10	0.02	150			YES
148	RB228NS150		FH	TL	150	150	30	100	0.88	15	0.025	150			YES
149	RB238NS150		FH	TL	150	150	40	100	0.87	20	0.03	150			YES
150	RB088NS200		FH	TL	200	200	10	100	0.88	5	0.007	200			YES
151	RB218NS200		FH	TL	200	200	20	100	0.88	10	0.01	200			YES
152	RB088T-30	NZ	–	C9	35	30	10	50	0.72	5	0.003	30	TO-220AB (TO-220FN) <3pin>		–
153	RB218T-30	NZ	–	C9	35	30	20	100	0.72	10	0.005	30			–
154	RB228T-30	NZ	–	C9	35	30	30	100	0.72	15	0.01	30			–
155	RB238T-30	NZ	–	C9	35	30	40	100	0.75	20	0.012	30			–
156	RB088T-40	NZ	–	C9	45	40	10	50	0.77	5	0.003	40			–
157	RB218T-40	NZ	–	C9	45	40	20	100	0.77	10	0.005	40			–
158	RB228T-40	NZ	–	C9	45	40	30	100	0.77	15	0.01	40			–
159	RB238T-40	NZ	–	C9	45	40	40	100	0.8	20	0.012	40			–
160	RB088T-60	NZ	–	C9	60	60	10	50	0.83	5	0.003	60			–
161	RB218T-60	NZ	–	C9	60	60	20	100	0.83	10	0.005	60			–
162	RB228T-60	NZ	–	C9	60	60	30	100	0.83	15	0.01	60			–
163	RB238T-60	NZ	–	C9	60	60	40	100	0.86	20	0.012	60			–
164	RB088T100	NZ	–	C9	110	100	10	100	0.87	5	0.005	100			–
165	RB218T100	NZ	–	C9	110	100	20	100	0.87	10	0.007	100			–
166	RB228T100	NZ	–	C9	110	100	30	100	0.87	5	0.005	100			–
167	RB298T100	NZ	–	C9	110	100	30	100	0.87	15	0.01	100			–
168	RB238T100	NZ	–	C9	110	100	40	100	0.86	20	0.02	100			–
169	RB088T150	NZ	–	C9	150	150	10	50	0.88	5	0.015	150			–
170	RB218T150	NZ	–	C9	150	150	20	100	0.88	10	0.02	150			–
171	RB228T150	NZ	–	C9	150	150	30	100	0.88	15	0.025	150			–
172	RB238T150	NZ	–	C9	150	150	40	100	0.87	20	0.03	150			–

*一般产品的产品性能代码为空白。

*1 每个元件的平均输出电流为Io(1个元件)、1/2Io(2个元件)。

*2 每个元件的规格。

注：(　)内表示ROHM封装。

快速恢复二极管

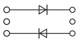
快速恢复二极管
例: RF01VM2S FH TE-17
型号 产品性能代码 包装代码

●小信号/中功率快速恢复二极管一览表

V_R (V)	I_O (A)	表面贴装型																	
																			
		1608 size		2512 size		2514 size				2513 size		3516 size		4725 size		5026 size		2928 size	
		SOD-523 (EMD2)		SOD-323FL (UMD2)		SOD-323HE (TUMD2M)		SOD-323HE (TUMD2SM)		(PMDE)		SOD-123FL (PMDU)		SOD-128 (PMDTM)		DO-214AC SMA (PMDS)		SOT-457T (TSMD6)	
100	0.5					RF05VAM1S RF05VYM1S	3 4												
200	0.4																	RF04UA2D	36
	0.5					RF05VAM2S RF05VYM2S	5 6					RFC02MM2S	11						
	0.7											RF071MM2S	12						
	0.8											RF081MM2S	13						
	1									RFN1VWM2S	9			RF101LAM2S	14	RF101L2S	26		
	1.1													RF081LAM2S	15	RF081L2S	27		
	2									RFN2VWM2S	10			RF201LAM2S RF202LAM2S	16 17	RF201L2S	28		
	3													RF302LAM2S	18				
250	0.1			RF01VM2S	2														
400	1													RF071LAM4S RF101LAM4S	19 20	RF071L4S RF101L4S	29 30		
	1.5													RF201LAM4S RFN2LAM4S	21 22	RF201L4S RFN2L4S	31 32		
450	0.1	RFU01SM4S	1																
600	0.2							RFU02VSM6S	7										
	0.8													RFN1LAM6S	23	RFN1L6S	33		
	1.5													RFN2LAM6S	24	RFN2L6S	34		
700	0.8													RFN1LAM7S	25	RFN1L7S	35		
800	0.2							RFU02VSM8S	8										

注：(　)内表示ROHM封装。

小信号/中功率快速恢复二极管

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_a=25° C/T_C=25° C/T_j=25° C)				Electrical Characteristics (T_j=25°C)*1							Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O (A)	I_{FSM} (A) 60Hz.1 ∿	V_F (V) Max		I_R (μA) Max		trr (ns) Max					
		General	Automotive							I_F (A)		V_R (V)		I_F (A)	I_R (A)			
1	RFU01SM4S	*	–	T2R	450	450	0.1	1	1.8	0.1	10	450	35	0.1	0.1	SOD-523 (EMD2)		–
2	RF01VM2S		FH	TE-17	250	250	0.1	1	1.2	0.1	10	250	50	*2		SOD-323FL (UMD2)		YES
3	RF05VAM1S		–	TR	100	100	0.5	6	0.98	0.5	10	100	25	0.5	1	SOD-323HE (TUMD2M)		–
4	RF05VYM1S	–	FH	TR	100	100	0.5	6	0.98	0.5	10	100	25	0.5	1			YES
5	RF05VAM2S	*	–	TR	200	200	0.5	6	0.98	0.5	10	200	25	0.5	1			–
6	RF05VYM2S	–	FH	TR	200	200	0.5	6	0.98	0.5	10	200	25	0.5	1			YES
7	RFU02VSM6S	*	–	TR	600	600	0.2	1	2.2	0.2	10	600	35	0.1	0.1	SOD-323HE (TUMD2SM)		–
8	RFU02VSM8S		–	TR	800	800	0.2	1	3	0.2	10	800	35	0.1	0.1			–
9	RFN1VWM2S		TF	TR	200	200	1	20	0.93	1	1	200	25	0.5	1	(PMDE)		YES
10	RFN2VWM2S		TF	TR	200	200	2	20	0.99	2	1	200	25	0.5	1			YES
11	RFC02MM2S		TF	TR	200	200	0.5	10	0.95	0.5	1	200	35	0.1	0.2	SOD-123FL (PMDU)		YES
12	RF071MM2S		TF	TR	200	200	0.7	15	0.85	0.7	10	200	25	0.5	1			YES
13	RF081MM2S		TF	TR	200	200	0.8	20	0.95	0.8	10	200	25	0.5	1			YES
14	RF101LAM2S		TF	TR	200	200	1	20	0.87	1	10	200	25	0.5	1	SOD-128 (PMDTM)		YES
15	RF081LAM2S		TF	TR	200	200	1.1	25	0.98	1	10	200	25	0.5	1			YES
16	RF201LAM2S		TF	TR	200	200	2	20	0.87	2	10	200	25	0.5	1			YES
17	RF202LAM2S		TF	TR	200	200	2	20	0.93	2	10	200	25	0.5	1			YES
18	RF302LAM2S		TF	TR	200	200	3	20	0.92	3	10	200	25	0.5	1			YES
19	RF071LAM4S		TF	TR	400	400	1	15	1.25	0.7	10	400	25	0.5	1			YES
20	RF101LAM4S		TF	TR	400	400	1	25	1.25	1	10	400	25	0.5	1			YES
21	RF201LAM4S		TF	TR	400	400	1.5	50	1.2	1.5	1	400	30	0.5	1			YES
22	RFN2LAM4S		TF	TR	400	400	1.5	50	1.2	1.5	1	400	30	0.5	1			YES
23	RFN1LAM6S		TF	TR	600	600	0.8	15	1.45	0.8	1	600	35	0.5	1			YES
24	RFN2LAM6S		TF	TR	600	600	1.5	40	1.55	1.5	1	600	35	0.5	1			YES
25	RFN1LAM7S		TF	TR	700	700	0.8	15	1.5	0.8	1	700	80	0.5	1			YES
26	RF101L2S	–	DD	TE25	200	200	1	20	0.87	1	10	200	25	0.5	1	DO-214AC SMA (PMDS)		YES
27	RF081L2S		TF	TE25	200	200	1.1	25	0.98	1	10	200	25	0.5	1			YES
28	RF201L2S		DD	TE25	200	200	2	20	0.87	2	10	200	25	0.5	1			YES
29	RF071L4S		TF	TE25	400	400	1	15	1.25	0.7	10	400	25	0.5	1			YES
30	RF101L4S		TF	TE25	400	400	1	25	1.25	1	10	400	25	0.5	1			YES
31	RF201L4S		DD	TE25	400	400	1.5	50	1.2	1.5	1	400	30	0.5	1			YES
32	RFN2L4S		DD	TE25	400	400	1.5	50	1.2	1.5	1	400	30	0.5	1			YES
33	RFN1L6S		DD	TE25	600	600	0.8	15	1.45	0.8	1	600	35	0.5	1			YES
34	RFN2L6S		DD	TE25	600	600	1.5	40	1.55	1.5	1	600	35	0.5	1			YES
35	RFN1L7S		DD	TE25	700	700	0.8	15	1.5	0.8	1	700	80	0.5	1			YES
36	RF04UA2D	*	FH	TR	200	200	0.4	1	0.98	0.2	10	200	25	0.5	1	SOT-457T (TSMD6)		YES

*一般产品的产品性能代码为空白。
*1 每个元件的规格。　*2 V_R=6V, I_F=10mA, Irr=0.1×I_R
注：(　)内表示ROHM封装。

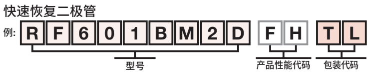
快速恢复二极管

●功率快速恢复二极管一览表

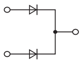
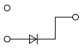
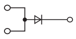
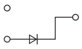
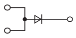
V_R (V)	I_O (A)	表面贴装型						引脚插入型											
																			
		TO-252AA D-PAK (TO-252GE)		TO-252AA D-PAK (TO-252M)		TO-263AB D2PAK (TO-263S)		TO-220AB (TO-220FN) <2pin>		TO-220AB (TO-220FN) <3pin>		TO-220AB (TO-220NFM)		TO-220AC (TO-220AC)		TO-220AC (TO-220ACFP)		TO-247-2L (TO-247GE-2L)	
200	3	RF301BGE2S RFN3BGE2S	19 20	RF301BM2S RFN3BM2S	34 35														
	5	RF501BGE2S RFN5BGE2S	21 22	RF501BM2S RFN5BM2S	36 37														
	6	RF601BGE2D RFN6BGE2D	1 2	RF601BM2D RFN6BM2D	3 4					RF601T2D RFN6T2D	10 11								
	10					RF1001NS2D	5			RF1001T2D RFN10T2D	12 13								
	16					RF1601NS2D	6			RF1601T2D RFN16T2D	14 15								
	20					RF2001NS2D	7			RF2001T2D RFN20T2D	16 17								
300	20					RF2001NS3D	8			RF2001T3D	18	RF1501TF3S	67						
350	5	RFN5BGE3S	23	RFN5BM3S	38														
	10	RFN10BGE3S	32	RFN10BM3S	47	RFN10NS3S	49												
	20					RFN20NS3S RFUH25NS3S RFUH20NS3S	50 51 52	RFUH25TB3S RFUH20TB3S	61 62										
430	10					RFN10NS4S RFUH10NS4S	53 54	RFN10TB4S RFUH10TB4S	63 64										
	20					RFN20NS4S RFUH20NS4S	55 56	RFN20TB4S RFUH20TB4S	65 66										
600	3	RFN3BGE6S RF305BGE6S	24 25	RFN3BM6S RF305BM6S	39 40														
	5	RFNL5BGE6S RFN5BGE6S RF505BGE6S RFV5BGE6S	26 27 28 29	RFNL5BM6S RFN5BM6S RF505BM6S RFV5BM6S	41 42 43 44							RFN5TF6S RF505TF6S RFUH5TF6S	68 69 70			RFNL5TJ6S	82		
	8	RFV8BGE6S	30	RFV8BM6S	45									RFVS8TG6S RFV8TG6S	77 78	RFVS8TJ6S RFV8TJ6S	83 84		
	10	RFNL10BGE6S RFN10BGE6S	31 33	RFNL10BM6S RFN10BM6S	46 48	RFN10NS6S RFUH10NS6S	57 58					RFN10TF6S RF1005TF6S RFUH10TF6S	71 72 73			RFNL10TJ6S	85		
	12													RFV12TG6S	79	RFV12TJ6S	86		
	15													RFV15TG6S	80	RFNL15TJ6S RFV15TJ6S	87 88		
	20					RFN20NS6S RFUH20NS6S	59 60					RFN20TF6S RFUH20TF6S	74 75			RFNL20TJ6S RFN20TJ6S RFUH20TJ6S	89 90 91		
	30													RFV30TG6S	81				
650	30																	RFL30TZ6S RFS30TZ6S	92 93
	60																	RFL60TZ6S RFS60TZ6S	94 95
800	5											RFN5TF8S	76						
	10					RFN10NS8D	9												

注：(　)内表示ROHM封装。

快速恢复二极管



功率快速恢复二极管 1

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25°C)				Electrical Characteristics (T_j=25° C)*2							Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O*1 (A)	I_{FSM} (A)*2 60Hz.1 ∿	V_F (V)		I_R (μA)		trr (ns)					
		General	Automotive						Max	I_F (A)	Max	V_R (V)	Max	I_F (A)	I_R (A)			
1	RF601BGE2D	*	–	TL	200	200	6	60	0.93	3	10	200	25	0.5	1	TO-252AA D-PAK (TO-252GE)		–
2	RFN6BGE2D			TL	200	200	6	40	0.98	3	10	200	25	0.5	1			–
3	RF601BM2D	–	FH	TL	200	200	6	60	0.93	3	10	200	25	0.5	1	TO-252AA D-PAK (TO-252M)		YES
4	RFN6BM2D		FH	TL	200	200	6	40	0.98	3	10	200	25	0.5	1			YES
5	RF1001NS2D	*	FH	TL	200	200	10	80	0.93	5	10	200	25	0.5	1	TO-263AB D2PAK (TO-263S)		YES
6	RF1601NS2D		FH	TL	200	200	16	100	0.93	8	10	200	30	0.5	1			YES
7	RF2001NS2D		FH	TL	200	200	20	100	0.93	10	10	200	30	0.5	1			YES
8	RF2001NS3D		FH	TL	350	300	20	100	1.3	10	10	300	25	0.5	1			YES
9	RFN10NS8D		FH	TL	800	800	10	60	2.1	5	10	800	40	0.5	1			YES
10	RF601T2D	NZ	–	C9	200	200	6	60	0.93	3	10	200	25	0.5	1	TO-220AB (TO-220FN) <3pin>		–
11	RFN6T2D	NZ	–	C9	200	200	6	40	0.98	3	10	200	25	0.5	1			–
12	RF1001T2D	NZ	–	C9	200	200	10	80	0.93	5	10	200	30	0.5	1			–
13	RFN10T2D	NZ	–	C9	200	200	10	80	0.98	5	10	200	25	0.5	1			–
14	RF1601T2D	NZ	–	C9	200	200	16	100	0.93	8	10	200	30	0.5	1			–
15	RFN16T2D	NZ	–	C9	200	200	16	100	0.98	8	10	200	30	0.5	1			–
16	RF2001T2D	NZ	–	C9	200	200	20	100	0.93	10	10	200	30	0.5	1			–
17	RFN20T2D	NZ	–	C9	200	200	20	100	0.98	10	10	200	30	0.5	1			–
18	RF2001T3D	NZ	–	C9	350	300	20	100	1.3	10	10	300	25	0.5	1			–
19	RF301BGE2S	*	–	TL	200	200	3	40	0.93	3	10	200	25	0.5	1	TO-252AA D-PAK (TO-252GE)		–
20	RFN3BGE2S			TL	200	200	3	40	0.98	3	10	200	25	0.5	1			–
21	RF501BGE2S			TL	200	200	5	40	0.92	5	1	200	25	0.5	1			–
22	RFN5BGE2S			TL	200	200	5	40	0.98	5	10	200	25	0.5	1			–
23	RFN5BGE3S			TL	350	350	5	50	1.5	5	10	350	30	0.5	1			–
24	RFN3BGE6S			TL	600	600	3	20	1.55	3	10	600	30	0.5	1			–
25	RF305BGE6S			TL	600	600	3	50	1.7	3	10	600	30	0.5	1			–
26	RFNL5BGE6S			TL	600	600	5	50	1.3	5	10	600	60	0.5	1			–
27	RFN5BGE6S			TL	600	600	5	30	1.55	5	10	600	50	0.5	1			–
28	RF505BGE6S			TL	600	600	5	50	1.7	5	10	600	30	0.5	1			–
29	RFV5BGE6S			TL	600	600	5	60	2.8	5	10	600	20	0.5	1			–
30	RFV8BGE6S			TL	600	600	8	100	2.8	8	10	600	25	0.5	1			–
31	RFNL10BGE6S			TL	600	600	10	100	1.25 1.3	8 10	10	600	65	0.5	1			–
32	RFN10BGE3S	*	–	TL	350	350	10	80	1.5	10	10	350	30	0.5	1			–
33	RFN10BGE6S			TL	600	600	10	100	1.55	10	10	600	50	0.5	1			–
34	RF301BM2S	–	FH	TL	200	200	3	40	0.93	3	10	200	25	0.5	1	TO-252AA D-PAK (TO-252M)		YES
35	RFN3BM2S		FH	TL	200	200	3	40	0.98	3	10	200	25	0.5	1			YES
36	RF501BM2S		FH	TL	200	200	5	40	0.92	5	1	200	25	0.5	1			YES
37	RFN5BM2S		FH	TL	200	200	5	40	0.98	5	10	200	25	0.5	1			YES
38	RFN5BM3S		FH	TL	350	350	5	50	1.5	5	10	350	30	0.5	1			YES
39	RFN3BM6S		FH	TL	600	600	3	20	1.55	3	10	600	30	0.5	1			YES
40	RF305BM6S		FH	TL	600	600	3	50	1.7	3	10	600	30	0.5	1			YES
41	RFNL5BM6S		FH	TL	600	600	5	50	1.3	5	10	600	60	0.5	1			YES
42	RFN5BM6S		FH	TL	600	600	5	30	1.55	5	10	600	50	0.5	1			YES
43	RF505BM6S		FH	TL	600	600	5	50	1.7	5	10	600	30	0.5	1			YES
44	RFV5BM6S		FH	TL	600	600	5	60	2.8	5	10	600	20	0.5	1			YES
45	RFV8BM6S		FH	TL	600	600	8	100	2.8	8	10	600	25	0.5	1			YES
46	RFNL10BM6S		FH	TL	600	600	10	100	1.25 1.3	8 10	10	600	65	0.5	1			YES
47	RFN10BM3S	–	FH	TL	350	350	10	80	1.5	10	10	350	30	0.5	1			YES
48	RFN10BM6S		FH	TL	600	600	10	100	1.55	10	10	600	50	0.5	1			YES
49	RFN10NS3S	*	FH	TL	350	350	10	100	1.5	10	10	350	30	0.5	1	TO-263AB D2PAK (TO-263S)		YES
50	RFN20NS3S		FH	TL	350	350	20	100	1.35	20	10	350	35	0.5	1			YES
51	RFUH25NS3S		FH	TL	350	350	20	100	1.45	20	10	350	30	0.5	1			YES
52	RFUH20NS3S		FH	TL	350	350	20	100	1.5	20	10	350	25	0.5	1			YES
53	RFN10NS4S		FH	TL	430	430	10	80	1.55	10	10	430	30	0.5	1			YES
54	RFUH10NS4S		FH	TL	430	430	10	80	1.7	10	10	430	25	0.5	1			YES
55	RFN20NS4S		FH	TL	430	430	20	100	1.55	20	10	430	30	0.5	1			YES
56	RFUH20NS4S		FH	TL	430	430	20	100	1.7	20	10	430	25	0.5	1			YES
57	RFN10NS6S		FH	TL	600	600	10	100	1.55	10	10	600	50	0.5	1			YES
58	RFUH10NS6S		FH	TL	600	600	10	60	2.8	10	10	600	25	0.5	1			YES
59	RFN20NS6S		FH	TL	600	600	20	100	1.55	20	10	600	60	0.5	1			YES
60	RFUH20NS6S		FH	TL	600	600	20	100	2.8	20	10	600	35	0.5	1			YES

*一般产品的产品性能代码为空白。

*1 每个元件的平均输出电流为Io(1个元件)、1/2 Io(2个元件)。　*2 每个元件的规格。

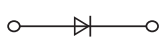
注：(　)内表示ROHM封装。

快速恢复二极管

例: R F U H 2 5 T B 3 S N Z C 9

型号 产品性能代码 包装代码

功率快速恢复二极管 2

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_C=25˚C)				Electrical Characteristics (T_j=25° C)							Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code General	Grade Code Automotive	Taping Code	V_{RM} (V)	V_R (V)	I_O (A)	I_{FSM} (A) 60Hz.1∿	V_F (V) Max	I_F (A)	I_R (μA) Max	V_R (V)	trr (ns) Max	I_F (A)	I_R (A)			
61	**RFUH25TB3S**	NZ	—	C9	350	350	20	100	1.45	20	10	350	30	0.5	1	TO-220AB (TO-220FN) <2pin>		—
62	**RFUH20TB3S**	NZ	—	C9	350	350	20	100	1.5	20	10	350	25	0.5	1			—
63	**RFN10TB4S**	NZ	—	C9	430	430	10	80	1.7	10	10	430	25	0.5	1			—
64	**RFUH10TB4S**	NZ	—	C9	430	430	10	80	1.55	10	10	430	30	0.5	1			—
65	**RFN20TB4S**	NZ	—	C9	430	430	20	100	1.55	20	10	430	30	0.5	1			—
66	**RFUH20TB4S**	NZ	—	C9	430	430	20	100	1.7	20	10	430	25	0.5	1			—
67	**RF1501TF3S**	*	FH	C9	350	300	20	100	1.5	20	10	300	30	0.5	1	TO-220AB (TO-220NFM)		YES
68	**RFN5TF6S**		FH	C9	600	600	5	30	1.55	5	10	600	50	0.5	1			YES
69	**RF505TF6S**		FH	C9	600	600	5	80	1.7	5	10	600	30	0.5	1			YES
70	**RFUH5TF6S**		FH	C9	600	600	5	30	2.8	5	10	600	25	0.5	1			YES
71	**RFN10TF6S**		FH	C9	600	600	10	100	1.55	10	10	600	50	0.5	1			YES
72	**RF1005TF6S**		FH	C9	600	600	10	100	1.7	10	10	600	40	0.5	1			YES
73	**RFUH10TF6S**		FH	C9	600	600	10	60	2.8	10	10	600	25	0.5	1			YES
74	**RFN20TF6S**		FH	C9	600	600	20	100	1.55	20	10	600	60	0.5	1			YES
75	**RFUH20TF6S**		FH	C9	600	600	20	100	2.8	20	10	600	35	0.5	1			YES
76	**RFN5TF8S**		FH	C9	800	800	5	60	2.1	5	10	800	40	0.5	1			YES
77	**RFVS8TG6S**	G	—	C9	600	600	8	60	3	8	10	600	20	0.5	1	TO-220AC (TO-220AC)		—
78	**RFV8TG6S**	G	—	C9	600	600	8	100	2.8	8	10	600	25	0.5	1			—
79	**RFV12TG6S**	G	—	C9	600	600	12	120	2.8	12	10	600	25	0.5	1			—
80	**RFV15TG6S**	G	—	C9	600	600	15	150	2.8	15	10	600	30	0.5	1			—
81	**RFV30TG6S**	G	—	C9	600	600	30	200	2.8	30	10	600	40	0.5	1			—
82	**RFNL5TJ6S**	G	FHG	C9	600	600	5	50	1.3	5	10	600	60	0.5	1	TO-220AC (TO-220ACFP)		YES
83	**RFVS8TJ6S**	G	—	C9	600	600	8	60	3	8	10	600	20	0.5	1			—
84	**RFV8TJ6S**	G	—	C9	600	600	8	100	2.8	8	10	600	25	0.5	1			—
85	**RFNL10TJ6S**	G	FHG	C9	600	600	10	120	1.25 1.3	8 10	10	600	65	0.5	1			YES
86	**RFV12TJ6S**	G	—	C9	600	600	12	120	2.8	12	10	600	25	0.5	1			—
87	**RFNL15TJ6S**	G	FHG	C9	600	600	15	160	1.3	15	10	600	65	0.5	1			YES
88	**RFV15TJ6S**	G	—	C9	600	600	15	150	2.8	15	10	600	30	0.5	1			—
89	**RFNL20TJ6S**	G	FHG	C9	600	600	20	200	1.3	20	10	600	70	0.5	1			YES
90	**RFN20TJ6S**	G	FHG	C9	600	600	20	150	1.55	20	10	600	60	0.5	1			YES
91	**RFUH20TJ6S**	G	FHG	C9	600	600	20	120	2.8	20	10	600	35	0.5	1			YES
92	**RFL30TZ6S**	G	—	C13	650	650	30	200	1.5	30	5	650	55	0.5	1	TO-247-2L (TO-247GE-2L)		—
93	**RFS30TZ6S**	G	—	C13	650	650	30	160	2.3	30	5	650	35	0.5	1			—
94	**RFL60TZ6S**	G	—	C13	650	650	60	320	1.5	60	10	650	75	0.5	1			—
95	**RFS60TZ6S**	G	—	C13	650	650	60	250	2.3	60	10	650	55	0.5	1			—

*一般产品的产品性能代码为空白。
注：(　)内表示ROHM封装。

整流二极管

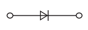
整流二极管
例: RRE07VTM4S FH TR
型号 产品性能代码 包装代码

●整流二极管一览表

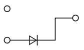
			表面贴装型			
			2514 size			
	V_R (V)	I_O (A)				
			SOD-323HE (TUMD2SM)		TO-252AA D-PAK (TO-252M)	
General Purpose Rectifier Diodes	400	0.2	RRE02VSM4S RRE02VTM4S	1 2		
		0.7	RRE07VSM4S RRE07VTM4S	3 4		
	600	0.2	RRE02VSM6S RRE02VTM6S	5 6		
		0.7	RRE07VSM6S RRE07VTM6S	7 8		
Power Rectifier Diodes	400	6			RR601BM4S	9
	1,000	20				

注：(　)内表示ROHM封装。

一般整流二极管

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_a=25° C/T_C=25° C/T_l=25° C)				Electrical Characteristics (T_j=25° C)							Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O (A)	I_{FSM} (A) 60Hz.1 ∿	V_F (V) Max	I_F (A)	I_R (μA) Max	V_R (V)	trr (ns) Max	I_F (mA)	I_R (mA)			
		General	Automotive															
1	**RRE02VSM4S**	*	–	TR	400	400	0.2	1	1.1	0.2	1	400	–	–	–	SOD-323HE (TUMD2SM)		–
2	**RRE02VTM4S**	–	FH	TR	400	400	0.2	1	1.1	0.2	1	400	–	–	–			YES
3	**RRE07VSM4S**	*	–	TR	400	400	0.7	2	1.1	0.7	1	400	–	–	–			–
4	**RRE07VTM4S**	–	FH	TR	400	400	0.7	2	1.1	0.7	1	400	–	–	–			YES
5	**RRE02VSM6S**	*	–	TR	600	600	0.2	1	1.1	0.2	1	600	–	–	–			–
6	**RRE02VTM6S**	–	FH	TR	600	600	0.2	1	1.1	0.2	1	600	–	–	–			YES
7	**RRE07VSM6S**	*	–	TR	600	600	0.7	2	1.1	0.7	1	600	–	–	–			–
8	**RRE07VTM6S**	–	FH	TR	600	600	0.7	2	1.1	0.7	1	600	–	–	–			YES

功率整流二极管

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_a=25° C/T_C=25° C/T_l=25° C)				Electrical Characteristics (T_j=25° C)							Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_O (A)	I_{FSM} (A) 60Hz.1 ∿	V_F (V) Max	I_F (A)	I_R (μA) Max	V_R (V)	trr (ns) Max	I_F (mA)	I_R (mA)			
		General	Automotive															
9	**RR601BM4S**	–	FH	TL	400	400	6	40	1.1	6	10	400	–	–	–	TO-252AA D-PAK (TO-252M)		YES

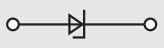
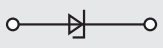
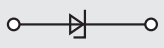
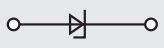
*一般产品的产品性能代码为空白。
注：(　)内表示ROHM封装。

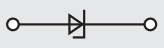
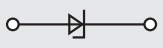
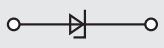
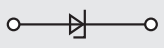
齐纳二极管

齐纳二极管

例: EDZV	FH	T2R	3.6	B
型号	产品性能代码	包装代码	齐纳电压	细区分

齐纳二极管 1

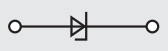
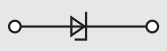
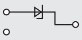
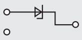
Package	表面贴装型															
																
	0603 size DSN0603-2 (SMD0603)				1006 size SOD-923 (VMN2M)				1608 size SOD-523 (EMD2)				2512 size SOD-323FL (UMD2)			
Equivalent Circuit Diagram																
Series Name	ADZ series				CDZV series				EDZV series				UFZV series			
Automotive Grade Code	—				—				FH				FH			
Power (mW)	100				100				150				500			
Taping Code	T15R				T2R				T2R				TE-17			
Electrical Characteristics (T_a=25° C)	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101
Voltage	—	—	—	—	2.0B	2.02 to 2.20	5	—	2.0B	2.02 to 2.20	5	—	—	—	—	—
	—	—	—	—	2.2B	2.22 to 2.41	5	—	2.2B	2.22 to 2.41	5	—	—	—	—	—
	—	—	—	—	2.4B	2.43 to 2.63	5	—	2.4B	2.43 to 2.63	5	—	—	—	—	—
	—	—	—	—	2.7B	2.69 to 2.91	5	—	2.7B	2.69 to 2.91	5	—	—	—	—	—
	—	—	—	—	3.0B	3.01 to 3.22	5	—	3.0B	3.01 to 3.22	5	—	—	—	—	—
	—	—	—	—	3.3B	3.32 to 3.53	5	—	3.3B	3.32 to 3.53	5	—	—	—	—	—
	—	—	—	—	3.6B	3.600 to 3.845	5	—	3.6B	3.600 to 3.845	5	YES	3.6B	3.580 to 3.836	20	—
	—	—	—	—	3.9B	3.89 to 4.16	5	—	3.9B	3.89 to 4.16	5	YES	3.9B	3.870 to 4.151	20	—
	—	—	—	—	4.3B	4.17 to 4.43	5	—	4.3B	4.17 to 4.43	5	YES	4.3B	4.151 to 4.423	20	—
	—	—	—	—	4.7B	4.55 to 4.75	5	—	4.7B	4.55 to 4.75	5	YES	4.7B	4.534 to 4.795	20	YES
	5.1B	4.975 to 5.230	5	—	5.1B	4.98 to 5.20	5	—	5.1B	4.98 to 5.20	5	YES	5.1B	4.940 to 5.200	20	YES
	5.6B	5.510 to 5.800	5	—	5.6B	5.49 to 5.73	5	—	5.6B	5.49 to 5.73	5	YES	5.6B	5.450 to 5.730	20	YES
	6.2B	6.020 to 6.335	5	—	6.2B	6.06 to 6.33	5	—	6.2B	6.06 to 6.33	5	YES	6.2B	5.976 to 6.307	20	YES
	6.8B	6.670 to 7.015	5	—	6.8B	6.65 to 6.93	5	—	6.8B	6.65 to 6.93	5	YES	6.8B	6.525 to 6.865	20	YES
	7.5B	7.330 to 7.710	5	—	7.5B	7.28 to 7.60	5	—	7.5B	7.28 to 7.60	5	YES	7.5B	7.104 to 7.509	20	YES
	8.2B	8.000 to 8.400	5	—	8.2B	8.02 to 8.36	5	—	8.2B	8.02 to 8.36	5	YES	8.2B	7.827 to 8.265	20	YES
	—	—	—	—	9.1B	8.85 to 9.23	5	—	9.1B	8.85 to 9.23	5	YES	9.1B	8.635 to 9.106	20	YES
	—	—	—	—	10B	9.77 to 10.21	5	—	10B	9.77 to 10.21	5	YES	10B	9.497 to 10.050	20	YES
	—	—	—	—	11B	10.76 to 11.22	5	—	11B	10.76 to 11.22	5	YES	11B	10.550 to 11.160	10	YES
	—	—	—	—	12B	11.74 to 12.24	5	—	12B	11.74 to 12.24	5	YES	12B	11.510 to 12.160	10	YES
	—	—	—	—	13B	12.91 to 13.49	5	—	13B	12.91 to 13.49	5	YES	13B	12.640 to 13.340	10	YES
	—	—	—	—	15B	14.34 to 14.98	5	—	15B	14.34 to 14.98	5	YES	15B	14.000 to 14.790	10	YES
	—	—	—	—	16B	15.85 to 16.51	5	—	16B	15.85 to 16.51	5	YES	16B	15.390 to 16.240	10	YES
	—	—	—	—	18B	17.56 to 18.35	2	—	18B	17.56 to 18.35	5	YES	18B	17.000 to 17.950	10	YES
	—	—	—	—	20B	19.52 to 20.39	2	—	20B	19.52 to 20.39	5	YES	20B	18.870 to 19.890	10	YES
	—	—	—	—	22B	21.54 to 22.47	2	—	22B	21.54 to 22.47	5	YES	22B	20.770 to 21.920	5	YES
	—	—	—	—	24B	23.72 to 24.78	2	—	24B	23.72 to 24.78	5	YES	24B	22.780 to 24.020	5	YES
	—	—	—	—	27B	26.19 to 27.53	2	—	27B	26.19 to 27.53	2	YES	27B	25.190 to 26.560	5	YES
	—	—	—	—	30B	29.19 to 30.69	2	—	30B	29.19 to 30.69	2	YES	30B	27.980 to 29.500	5	YES
	—	—	—	—	33B	32.15 to 33.79	2	—	33B	32.15 to 33.79	2	YES	33B	30.660 to 32.320	5	YES
	—	—	—	—	36B	35.07 to 36.87	2	—	36B	35.07 to 36.87	2	YES	36B	33.230 to 35.010	5	YES
	—	—	—	—	—	—	—	—	—	—	—	—	39B	35.880 to 37.790	5	YES

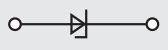
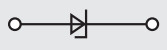
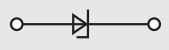
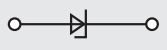
Package	表面贴装型															
																
	2512 size SOD-323FL (UMD2)				2512 size SOD-323FL (UMD2)				2514 size SOD-323HE (TUMD2M)				2514 size SOD-323HE (TUMD2M)			
Equivalent Circuit Diagram																
Series Name	UDZV series				UDZLV series				TFZV series				YFZV series			
Automotive Grade Code	FH				FH				—				FH			
Power (mW)	200				200				500				500			
Taping Code	TE-17				TE-17				TR				TR			
Electrical Characteristics (T_a=25° C)	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101
Voltage	2.0B	2.02 to 2.20	5	YES	51	48 to 54	2	YES	2.0B	2.02 to 2.20	20	—	—	—	—	—
	2.2B	2.22 to 2.41	5	YES	56	53 to 60	2	YES	2.2B	2.22 to 2.41	20	—	—	—	—	—
	2.4B	2.43 to 2.63	5	YES	62	58 to 66	2	YES	2.4B	2.43 to 2.63	20	—	—	—	—	—
	2.7B	2.69 to 2.91	5	YES	68	64 to 72	2	YES	2.7B	2.69 to 2.91	20	—	—	—	—	—
	3.0B	3.01 to 3.22	5	YES	75	70 to 79	2	YES	3.0B	3.01 to 3.22	20	—	3.0B	3.01 to 3.22	20	YES
	3.3B	3.32 to 3.53	5	YES	82	77 to 87	2	YES	3.3B	3.32 to 3.53	20	—	3.3B	3.32 to 3.53	20	YES
	3.6B	3.600 to 3.845	5	YES	91	85 to 96	1	YES	3.6B	3.600 to 3.845	20	—	3.6B	3.600 to 3.845	20	YES
	3.9B	3.89 to 4.16	5	YES	100	94 to 106	1	YES	3.9B	3.89 to 4.16	20	—	3.9B	3.89 to 4.16	20	YES
	4.3B	4.17 to 4.43	5	YES	110	104 to 116	1	YES	4.3B	4.17 to 4.43	20	—	4.3B	4.17 to 4.43	20	YES
	4.7B	4.55 to 4.75	5	YES	120	114 to 126	1	YES	4.7B	4.55 to 4.80	20	—	4.7B	4.55 to 4.80	20	YES
	5.1B	4.98 to 5.20	5	YES	130	122 to 138	1	—	5.1B	4.94 to 5.20	20	—	5.1B	4.94 to 5.20	20	YES
	5.6B	5.49 to 5.73	5	YES	150	140 to 160	1	—	5.6B	5.45 to 5.73	20	—	5.6B	5.45 to 5.73	20	YES
	6.2B	6.06 to 6.33	5	YES	—	—	—	—	6.2B	5.96 to 6.27	20	—	6.2B	5.96 to 6.27	20	YES
	6.8B	6.65 to 6.93	5	YES	—	—	—	—	6.8B	6.49 to 6.83	20	—	6.8B	6.49 to 6.83	20	YES
	7.5B	7.28 to 7.60	5	YES	—	—	—	—	7.5B	7.07 to 7.45	20	—	7.5B	7.07 to 7.45	20	YES
	8.2B	8.02 to 8.36	5	YES	—	—	—	—	8.2B	7.78 to 8.19	20	—	8.2B	7.78 to 8.19	20	YES
	9.1B	8.85 to 9.23	5	YES	—	—	—	—	9.1B	8.57 to 9.01	20	—	9.1B	8.57 to 9.01	20	YES
	10B	9.77 to 10.21	5	YES	—	—	—	—	10B	9.41 to 9.90	20	—	10B	9.41 to 9.90	20	YES
	11B	10.76 to 11.22	5	YES	—	—	—	—	11B	10.50 to 11.05	10	—	11B	10.50 to 11.05	10	YES
	12B	11.74 to 12.24	5	YES	—	—	—	—	12B	11.44 to 12.03	10	—	12B	11.44 to 12.03	10	YES
	13B	12.91 to 13.49	5	YES	—	—	—	—	13B	12.55 to 13.21	10	—	13B	12.55 to 13.21	10	YES
	15B	14.34 to 14.98	5	YES	—	—	—	—	15B	13.89 to 14.62	10	—	15B	13.89 to 14.62	10	YES
	16B	15.85 to 16.51	5	YES	—	—	—	—	16B	15.25 to 16.04	10	—	16B	15.25 to 16.04	10	YES
	18B	17.56 to 18.35	5	YES	—	—	—	—	18B	16.82 to 17.70	10	—	18B	16.82 to 17.70	10	YES
	20B	19.52 to 20.39	5	YES	—	—	—	—	20B	18.63 to 19.59	10	—	20B	18.63 to 19.59	10	YES
	22B	21.54 to 22.47	5	YES	—	—	—	—	22B	20.64 to 21.71	5	—	22B	20.64 to 21.71	5	YES
	24B	23.72 to 24.78	5	YES	—	—	—	—	24B	22.61 to 23.77	5	—	24B	22.61 to 23.77	5	YES
	27B	26.19 to 27.53	5	YES	—	—	—	—	27B	24.97 to 26.26	5	—	27B	24.97 to 26.26	5	YES
	30B	29.19 to 30.69	5	YES	—	—	—	—	30B	27.70 to 29.13	5	—	30B	27.70 to 29.13	5	YES
	33B	32.15 to 33.79	5	YES	—	—	—	—	33B	30.32 to 31.88	5	—	—	—	—	—
	36B	35.07 to 36.87	5	YES	—	—	—	—	36B	32.79 to 34.49	5	—	—	—	—	—
	39B	38.02 to 39.98	2	YES	—	—	—	—	39B	35.36 to 37.19	5	—	—	—	—	—
	43	40.00 to 45.00	2	YES	—	—	—	—	—	—	—	—	—	—	—	—
	47	44.00 to 49.00	2	YES	—	—	—	—	—	—	—	—	—	—	—	—

注1：表中是量产中的细区分。
注2：(　)内表示ROHM封装。

齐纳二极管

齐纳二极管 2

Package	表面贴装型															
																
	2514 size SOD-323HE (TUMD2M)				2514 size SOD-323HE (TUMD2M)				2924 size SOT-23 (SSD3)				2924 size SOT-23 (SSD3)			
Equivalent Circuit Diagram																
Series Name	TDZV series				YDZV series				BZX84BxxLY series				BZX84CxxLY series			
Automotive Grade Code	—				FH				FH				FH			
Power (mW)	500				500				250				250			
Taping Code	TR				TR				T116				T116			
Electrical Characteristics (T_a=25° C)	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101
Voltage	—	—	—	—	—	—	—	—	—	—	—	—	2V4	2.20 to 2.60	5	YES
	—	—	—	—	—	—	—	—	—	—	—	—	2V7	2.50 to 2.90	5	YES
	—	—	—	—	—	—	—	—	—	—	—	—	3V0	2.80 to 3.20	5	YES
	—	—	—	—	—	—	—	—	—	—	—	—	3V3	3.10 to 3.50	5	YES
	—	—	—	—	—	—	—	—	—	—	—	—	3V6	3.40 to 3.80	5	YES
	—	—	—	—	—	—	—	—	—	—	—	—	3V9	3.70 to 4.10	5	YES
	—	—	—	—	—	—	—	—	—	—	—	—	4V3	4.00 to 4.60	5	YES
	—	—	—	—	—	—	—	—	—	—	—	—	4V7	4.40 to 5.00	5	YES
	5.1	4.60 to 5.60	10	—	—	—	—	—	5V1	5.00 to 5.20	5	YES	5V1	4.80 to 5.40	5	YES
	5.6	5.10 to 6.10	10	—	—	—	—	—	5V6	5.49 to 5.71	5	YES	5V6	5.20 to 6.00	5	YES
	6.2	5.60 to 6.80	10	—	—	—	—	—	6V2	6.08 to 6.32	5	YES	6V2	5.80 to 6.60	5	YES
	6.8	6.20 to 7.40	10	—	—	—	—	—	6V8	6.66 to 6.94	5	YES	6V8	6.40 to 7.20	5	YES
	7.5	6.80 to 8.30	10	—	—	—	—	—	7V5	7.35 to 7.65	5	YES	7V5	7.00 to 7.90	5	YES
	8.2	7.40 to 9.00	10	—	—	—	—	—	8V2	8.04 to 8.36	5	YES	8V2	7.70 to 8.70	5	YES
	9.1	8.20 to 10.00	10	—	—	—	—	—	9V1	8.92 to 9.28	5	YES	9V1	8.50 to 9.60	5	YES
	10	9.00 to 11.00	10	—	—	—	—	—	10V	9.80 to 10.20	5	YES	10V	9.40 to 10.60	5	YES
	11	9.90 to 12.10	10	—	—	—	—	—	11V	10.80 to 11.20	5	YES	11V	10.40 to 11.60	5	YES
	12	10.80 to 13.20	10	—	—	—	—	—	12V	11.80 to 12.20	5	YES	12V	11.40 to 12.70	5	YES
	13	11.70 to 14.30	10	—	13	11.70 to 14.30	10	YES	13V	12.70 to 13.30	5	YES	13V	12.40 to 14.10	5	YES
	15	13.50 to 16.50	10	—	15	13.50 to 16.50	10	YES	15V	14.70 to 15.30	5	YES	15V	13.80 to 15.60	5	YES
	16	14.40 to 17.60	10	—	16	14.40 to 17.60	10	YES	16V	15.70 to 16.30	5	YES	16V	15.30 to 17.10	5	YES
	18	16.20 to 19.80	10	—	18	16.20 to 19.80	10	YES	18V	17.60 to 18.40	5	YES	18V	16.80 to 19.10	5	YES
	20	18.00 to 22.00	10	—	20	18.00 to 22.00	10	YES	20V	19.60 to 20.40	5	YES	20V	18.80 to 21.20	5	YES
	22	19.80 to 24.20	10	—	22	19.80 to 24.20	10	YES	22V	21.60 to 22.40	5	YES	22V	20.80 to 23.30	5	YES
	24	21.60 to 26.40	10	—	24	21.60 to 26.40	10	YES	24V	23.50 to 24.50	5	YES	24V	22.80 to 25.60	5	YES
	27	24.30 to 29.70	10	—	27	24.30 to 29.70	10	YES	27V	26.50 to 27.50	2	YES	27V	25.10 to 28.90	2	YES
	30	27.00 to 33.00	10	—	—	—	—	—	30V	29.40 to 30.60	2	YES	30V	28.00 to 32.00	2	YES
	—	—	—	—	—	—	—	—	33V	32.30 to 33.70	2	YES	33V	31.00 to 35.00	2	YES
	—	—	—	—	—	—	—	—	36V	35.30 to 36.70	2	YES	36V	34.00 to 38.00	2	YES

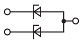
Package	表面贴装型															
																
	3516 size SOD-123FL (PMDU)				3516 size SOD-123FL (PMDU)				4725 size SOD-128 (PMDTM)				5026 size DO-214AC SMA (PMDS)			
Equivalent Circuit Diagram																
Series Name	KDZV series				KDZLV series				PDZV series				PTZ series*			
Automotive Grade Code	TF				TF				TF				TF			
Power (mW)	1,000				1,000				1,000				1,000			
Taping Code	TR				TR				TR				TE25			
Electrical Characteristics (T_a=25° C)	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101	V_Z (V)		I_Z (mA)	Automotive Grade AEC-Q101
Voltage	2.0B	2.00 to 2.24	40	YES	51	48 to 54	2	YES	2.0B	2.00 to 2.24	40	YES	2.0B	2.00 to 2.24	40	YES
	2.2B	2.20 to 2.45	40	YES	56	53 to 60	2	YES	2.2B	2.20 to 2.45	40	YES	2.2B	2.20 to 2.45	40	YES
	2.4B	2.40 to 2.70	40	YES	62	58 to 66	2	YES	2.4B	2.40 to 2.70	40	YES	2.4B	2.40 to 2.70	40	YES
	2.7B	2.70 to 3.10	40	YES	68	64 to 72	2	YES	2.7B	2.70 to 3.10	40	YES	2.7B	2.70 to 3.10	40	YES
	3.0B	3.00 to 3.40	40	YES	75	70 to 79	2	YES	3.0B	3.00 to 3.40	40	YES	3.0B	3.00 to 3.40	40	YES
	3.3B	3.30 to 3.70	40	YES	82	77 to 87	2	YES	3.3B	3.30 to 3.70	40	YES	3.3B	3.30 to 3.70	40	YES
	3.6B	3.60 to 4.00	40	YES	91	85 to 96	2	YES	3.6B	3.60 to 4.00	40	YES	3.6B	3.60 to 4.00	40	YES
	3.9B	3.90 to 4.40	40	YES	100	94 to 106	2	YES	3.9B	3.90 to 4.40	40	YES	3.9B	3.90 to 4.40	40	YES
	4.3B	4.30 to 4.80	40	YES	110	104 to 116	2	YES	4.3B	4.30 to 4.80	40	YES	4.3B	4.30 to 4.80	40	YES
	4.7B	4.70 to 5.20	40	YES	120	114 to 126	2	YES	4.7B	4.70 to 5.20	40	YES	4.7B	4.70 to 5.20	40	YES
	5.1B	5.10 to 5.70	40	YES	130	122 to 138	2	YES	5.1B	5.10 to 5.70	40	YES	5.1B	5.10 to 5.70	40	YES
	5.6B	5.60 to 6.30	40	YES	150	140 to 160	2	YES	5.6B	5.60 to 6.30	40	YES	5.6B	5.60 to 6.30	40	YES
	6.2B	6.20 to 7.00	40	YES	—	—	—	—	6.2B	6.20 to 7.00	40	YES	6.2B	6.20 to 7.00	40	YES
	6.8B	6.80 to 7.70	40	YES	—	—	—	—	6.8B	6.80 to 7.70	40	YES	6.8B	6.80 to 7.70	40	YES
	7.5B	7.50 to 8.40	40	YES	—	—	—	—	7.5B	7.50 to 8.40	40	YES	7.5B	7.50 to 8.40	40	YES
	8.2B	8.20 to 9.30	40	YES	—	—	—	—	8.2B	8.20 to 9.30	40	YES	8.2B	8.20 to 9.30	40	YES
	9.1B	9.10 to 10.20	40	YES	—	—	—	—	9.1B	9.10 to 10.20	40	YES	9.1B	9.10 to 10.20	40	YES
	10B	10.00 to 11.20	40	YES	—	—	—	—	10B	10.00 to 11.20	40	YES	10B	10.00 to 11.20	40	YES
	11B	11.00 to 12.30	20	YES	—	—	—	—	11B	11.00 to 12.30	20	YES	11B	11.00 to 12.30	20	YES
	12B	12.00 to 13.50	20	YES	—	—	—	—	12B	12.00 to 13.50	20	YES	12B	12.00 to 13.50	20	YES
	13B	13.30 to 15.00	20	YES	—	—	—	—	13B	13.30 to 15.00	20	YES	13B	13.30 to 15.00	20	YES
	15B	14.70 to 16.50	20	YES	—	—	—	—	15B	14.70 to 16.50	20	YES	15B	14.70 to 16.50	20	YES
	16B	16.20 to 18.30	20	YES	—	—	—	—	16B	16.20 to 18.30	20	YES	16B	16.20 to 18.30	20	YES
	18B	18.00 to 20.30	20	YES	—	—	—	—	18B	18.00 to 20.30	20	YES	18B	18.00 to 20.30	20	YES
	20B	20.00 to 22.40	20	YES	—	—	—	—	20B	20.00 to 22.40	20	YES	20B	20.00 to 22.40	20	YES
	22B	22.00 to 24.50	10	YES	—	—	—	—	22B	22.00 to 24.50	10	YES	22B	22.00 to 24.50	10	YES
	24B	24.00 to 27.60	10	YES	—	—	—	—	24B	24.00 to 27.60	10	YES	24B	24.00 to 27.60	10	YES
	27B	27.00 to 30.80	10	YES	—	—	—	—	27B	27.00 to 30.80	10	YES	27B	27.00 to 30.80	10	YES
	30B	30.00 to 34.00	10	YES	—	—	—	—	30B	30.00 to 34.00	10	YES	30B	30.00 to 34.00	10	YES
	33B	33.00 to 37.00	10	YES	—	—	—	—	33B	33.00 to 37.00	10	YES	33B	33.00 to 37.00	10	YES
	36B	36.00 to 40.00	10	YES	—	—	—	—	36B	36.00 to 40.00	10	YES	36B	36.00 to 40.00	10	YES
	39A	37.00 to 44.00	10	YES	—	—	—	—	—	—	—	—	—	—	—	—
	43A	40.00 to 46.00	10	YES	—	—	—	—	—	—	—	—	—	—	—	—
	47A	44.00 to 50.00	2	YES	—	—	—	—	—	—	—	—	—	—	—	—

*仅限车载级
注1：表中是量产中的细区分。
注2：(　)内表示ROHM封装。

齐纳二极管

保护元件
例: U M Z C 6 . 8 N F M　F H　T 1 0 6
型号　产品性能代码　包装代码

低容量保护元件

Product No.				Absolute Maximum Ratings (T_a=25°C)	Electrical Characteristics (T_a=25°C)					Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
Part No.	Grade Code		Taping Code	P_D (mW)	V_{BR} (V)		Ct (pF) Typ					
	General	Automotive				I_Z (mA)		f (MHz)	V_R (V)			
CDZCV5.1B	*	–	T2R	100	4.98 to 5.20	5	5.5	1	0	 SOD-923 (VMN2M)		–
CDZCV6.8B		–	T2R	100	6.65 to 6.93	5	3	1	0			–
EDZCV6.8B		–	T2R	150	6.65 to 6.93	5	3	1	0	 SOD-523 (EMD2)		–
RSAC6.8CM		–	T2R	100	6.70 to 7.33	5	0.3	1	0	 SOD-923 (VMN2M)		–
RSAC16CM		–	T2R	100	16.49 to 17.51	5	0.3	1	0			–
UMZC6.8NFM		FH	T106	200	6.47 to 7.14	5	3	1	0	 SOT-323 (UMD3)		YES
UMZU6.2NFM		FH	T106	200	5.90 to 6.50	5	8	1	0			YES

*一般产品的产品性能代码为空白。
注：( )内表示ROHM封装。

超低容量双向齐纳二极管

Product No.				Absolute Maximum Ratings (T_a=25° C)	Electrical Characteristics (T_a=25°C)					Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
Part No.	Grade Code		Taping Code	P_D (mW)	V_{BR} (V)		Ct (pF) Typ					
	General	Automotive				I_Z (mA)		f (MHz)	V_R (V)			
RSBC6.8CM	*	–	T2N	100	6.62 to 7.24	5	1	1	0	 SOD-923 (VMN2M)		–

*一般产品的产品性能代码为空白。
注：( )内表示ROHM封装。

TVS

●TVS一览表

V_{RWM} (V)	表面贴装型																	
	0603 size		1006 size		2924 size		2513 size		3516 size		4725 size		6546 size					
																		
	DSN0603-2 (SMD0603B)		DSN1006-2 (SMD1006)		SOT-23 (SSD3)		(PMDE)		SOD-123FL (PMDU)		SOD-128 (PMDTM)		TO-277A (TO-277GE)		TO-252AA D-PAK (TO-252M)		TO-263AB D2PAK (TO-263S)	
3.0					MMBZ5V6ALY MMBZ6V2ALY	6 7												
4.5					MMBZ6V8ALY	8												
5.0							VS5V0UA1VWM	22	SMF5V0	54	VS5V0UA1LAM	77						
6.0					MMBZ9V1ALY	9	VS6V0UA1VWM	23	SMF6V0	55	VS6V0UA1LAM	78						
6.3			VS6V3UC1QS	5														
6.5					MMBZ10VALY	10	VS6V5UA1VWM	24	SMF6V5	56								
7.0	VS7V0UD1HS	1							SMF7V0	57	VS7V0UA1LAM	79						
7.5							VS7V5UA1VWM	25	SMF7V5	58								
8.0									SMF8V0	59	VS8V0UA1LAM	80						
8.5					MMBZ12VALY	11												
9.0	VS9V0UD1HS	2					VS9V0UA1VWM	26	SMF9V0	60	VS9V0UA1LAM	81						
10.0									SMF10V	61	VS10VUA1LAM	82						
11.0							VS11VUA1VWM	27	SMF11V	62	VS11VUA1LAM	83						
12.0	VS12VUD1HS	3			MMBZ15VALY	12	VS12VUA1VWM	28	SMF12V	63	VS12VUA1LAM	84						
13.0					MMBZ16VALY	13	VS13VUA1VWM	29	SMF13V	64	VS13VUA1LAM	85						
14.0									SMF14V	65	VS14VUA1LAM	86						
14.5					MMBZ18VALY	14												
15.0	VS15VUD1HS	4					VS15VUA1VWM	30	SMF15V	66	VS15VUA1LAM	87						
16.0							VS16VUA1VWM	31	SMF16V	67	VS16VUA1LAM	88						
17.0					MMBZ20VALY	15	VS17VUA1VWM	32	SMF17V	68	VS17VUA1LAM	89						
18.0							VS18VUA1VWM	33	SMF18V	69	VS18VUA1LAM	90						
20.0					MMBZ24VALY	16	VS20VUA1VWM	34	SMF20V	70	VS20VUA1LAM	91						
22.0					MMBZ27VALY MMBZ27VCLY	17 21	VS22VUA1VWM	35	SMF22V	71	VS22VUA1LAM	92	RSDT27RSM	97	RSDT27BM	99	RSDT27NS	101
24.0					MMBZ30VALY	18	VS24VUA1VWM	36	SMF24V	72	VS24VUA1LAM	93	RSDT30RSM	98	RSDT30BM	100	RSDT30NS	102
26.0					MMBZ33VALY	19	VS26VUA1VWM	37	SMF26V	73	VS26VUA1LAM	94						
28.0					MMBZ36VALY	20			SMF28V	74	VS28VUA1LAM	95						
30.0							VS30VUA1VWM	38	SMF30V	75	VS30VUA1LAM	96						
33.0							VS33VUA1VWM	39	SMF33V	76								
36.0							VS36VUA1VWM	40										
40.0							VS40VUA1VWM	41										
43.0							VS43VLNVWM	42										
48.0							VS48VLNVWM	43										
54.0							VS54VLNVWM	44										
58.0							VS58VLNVWM	45										
64.0							VS64VLNVWM	46										
70.0							VS70VLNVWM	47										
78.0							VS78VLNVWM	48										
85.0							VS85VLNVWM	49										
90.0							VS90VLNVWM	50										
100							VS100VLNVWM	51										
110							VS110VLNVWM	52										
130							VS130VLNVWM	53										

注：(　)内表示ROHM封装。

●双向TVS一览表

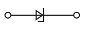
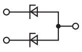
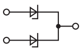
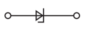
V_{RWM} (V)	表面贴装型											
	0402 size		0603 size				1006 size		2012 size		2924 size	
												
	DSN0402-2 (SMD0402)		DSN0603-2 (SMD0603)		DSN0603-2 (SMD0603B)		DSN1006-2 (SMD1006)		DSN2012-2 (SMD2012)		SOT-23 (SSD3)	
3.3	VS3V3BA1FS VS3V3BB1FS VS3V3BT1FS	103 104 105	VS3V3BA1ES VS3V3BB1ES	109 110	VS3V3BC1HS VS3V3BL1HS VS3V3BN1HS	108 121 122						
4.5							VS4V5BU1QS	115				
4.8									VS4V8BU1AR	116		
5.0	VS5V0BA1FS VS5V0BB1FS	106 107	VS5V0BA1ES VS5V0BB1ES VS5V0BC1ES	111 112 113	VS5V0BL1HS VS5V0BN1HS	123 124	VS5V0BL1QS	125				
12.0					VS12VBA1HS	114					ESD16VHY	117
16.0											ESD18VHY	118
24.0											ESD27VHY RESD1CANY	119 120

注：(　)内表示ROHM封装。

TVS

TVS
例: VS5V0UA1VWM TF TR
型号 产品性能代码 包装代码

TVS

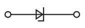
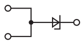
Quick Reference No.	Product No.				V$_{RWM}$ (V)	Absolute Maximum Ratings (T$_a$=25˚C)	Electrical Characteristics (T$_a$=25˚C)		Peak Pulse Power (W) (tp=10×1,000μs)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code		P$_D$ (mW)	V$_Z$ (V) or V$_{BR}$ (V)	I$_Z$ (mA)				
		General	Automotive									
1	**VS7V0UD1HS**	*	–	T15R	7.0	100	7.20 to 9.00	1	126 (8/20μs)	DSN0603-2 (SMD0603B)		–
2	**VS9V0UD1HS**		–	T15R	9.0	100	9.60 to 11.80	1	128 (8/20μs)			–
3	**VS12VUD1HS**		–	T15R	12.0	100	12.20 to 13.80	1	129 (8/20μs)			–
4	**VS15VUD1HS**		–	T15R	15.0	100	15.30 to 16.90	1	135 (8/20μs)			–
5	**VS6V3UC1QS**		–	T18R	6.3	200	6.70 to 7.70	1	660 (8/20μs)	DSN1006-2 (SMD1006)		–
6	**MMBZ5V6ALY**		FH	T116	3.0	225	5.32 to 5.88	20	24	SOT-23 (SSD3)		YES
7	**MMBZ6V2ALY**		FH	T116	3.0	225	5.89 to 6.51	1	24			YES
8	**MMBZ6V8ALY**		FH	T116	4.5	225	6.46 to 7.14	1	24			YES
9	**MMBZ9V1ALY**		FH	T116	6.0	225	8.65 to 9.56	1	24			YES
10	**MMBZ10VALY**		FH	T116	6.5	225	9.50 to 10.50	1	24			YES
11	**MMBZ12VALY**		FH	T116	8.5	225	11.40 to 12.60	1	40			YES
12	**MMBZ15VALY**		FH	T116	12.0	225	14.25 to 15.75	1	40			YES
13	**MMBZ16VALY**		FH	T116	13.0	225	15.20 to 16.80	1	40			YES
14	**MMBZ18VALY**		FH	T116	14.5	225	17.10 to 18.90	1	40			YES
15	**MMBZ20VALY**		FH	T116	17.0	225	19.00 to 21.00	1	40			YES
16	**MMBZ24VALY**		FH	T116	20.0	225	22.80 to 25.20	1	40			YES
17	**MMBZ27VALY**		FH	T116	22.0	225	25.65 to 28.35	1	40			YES
18	**MMBZ30VALY**		FH	T116	24.0	225	28.50 to 31.50	1	40			YES
19	**MMBZ33VALY**		FH	T116	26.0	225	31.35 to 34.65	1	40			YES
20	**MMBZ36VALY**		FH	T116	28.0	225	34.20 to 37.80	1	40			YES
21	**MMBZ27VCLY**		FH	T116	22.0	225	25.65 to 28.35	1	40			YES
22	**VS5V0UA1VWM**		TF	TR	5.0	1,000	6.40 to 7.20	40	200	(PMDE)		YES
23	**VS6V0UA1VWM**		TF	TR	6.0	1,000	6.80 to 7.70	40	200			YES
24	**VS6V5UA1VWM**		TF	TR	6.5	1,000	7.50 to 8.40	40	200			YES
25	**VS7V5UA1VWM**		TF	TR	7.5	1,000	8.20 to 9.30	40	200			YES
26	**VS9V0UA1VWM**		TF	TR	9.0	1,000	10.0 to 11.2	40	200			YES
27	**VS11VUA1VWM**		TF	TR	11.0	1,000	12.0 to 12.2	20	200			YES
28	**VS12VUA1VWM**		TF	TR	12.0	1,000	13.3 to 15.0	20	200			YES
29	**VS13VUA1VWM**		TF	TR	13.0	1,000	14.7 to 16.5	20	200			YES
30	**VS15VUA1VWM**		TF	TR	15.0	1,000	16.2 to 18.3	20	200			YES
31	**VS16VUA1VWM**		TF	TR	16.0	1,000	18.0 to 20.3	20	200			YES
32	**VS17VUA1VWM**		TF	TR	17.0	1,000	18.8 to 21.2	20	200			YES
33	**VS18VUA1VWM**		TF	TR	18.0	1,000	20.0 to 22.4	20	200			YES
34	**VS20VUA1VWM**		TF	TR	20.0	1,000	22.0 to 24.5	10	200			YES
35	**VS22VUA1VWM**		TF	TR	22.0	1,000	24.0 to 27.6	10	200			YES
36	**VS24VUA1VWM**		TF	TR	24.0	1,000	27.0 to 30.8	10	200			YES
37	**VS26VUA1VWM**		TF	TR	26.0	1,000	28.6 to 32.1	10	200			YES
38	**VS30VUA1VWM**		TF	TR	30.0	1,000	33.0 to 37.0	10	200			YES
39	**VS33VUA1VWM**		TF	TR	33.0	1,000	36.0 to 40.0	10	200			YES
40	**VS36VUA1VWM**		TF	TR	36.0	1,000	40.0 to 46.0	10	200			YES
41	**VS40VUA1VWM**		TF	TR	40.0	1,000	44.0 to 50.0	10	200			YES
42	**VS43VLNVWM**		TF	TR	43.0	1,000	48.0 to 54.0	2	200			YES
43	**VS48VLNVWM**		TF	TR	48.0	1,000	53.0 to 60.0	2	200			YES
44	**VS54VLNVWM**		TF	TR	54.0	1,000	58.0 to 66.0	2	200			YES
45	**VS58VLNVWM**		TF	TR	58.0	1,000	64.0 to 72.0	2	200			YES
46	**VS64VLNVWM**		TF	TR	64.0	1,000	70.0 to 79.0	2	200			YES
47	**VS70VLNVWM**		TF	TR	70.0	1,000	77.0 to 87.0	2	200			YES
48	**VS78VLNVWM**		TF	TR	78.0	1,000	85.0 to 96.0	2	200			YES
49	**VS85VLNVWM**		TF	TR	85.0	1,000	94.0 to 106	2	200			YES
50	**VS90VLNVWM**		TF	TR	90.0	1,000	104 to 116	2	200			YES
51	**VS100VLNVWM**		TF	TR	100	1,000	114 to 126	2	200			YES
52	**VS110VLNVWM**		TF	TR	110	1,000	122 to 138	2	200			YES
53	**VS130VLNVWM**		TF	TR	130	1,000	140 to 160	2	200			YES

*一般产品的产品性能代码为空白。
注：(　)内表示ROHM封装。

TVS

TVS
例: SMF5V0 TF TR
型号 产品性能代码 包装代码

TVS

Quick Reference No.	Product No.				V_{RWM} (V)	Absolute Maximum Ratings (T_a=25°C)	Electrical Characteristics (T_a=25°C)		Peak Pulse Power (W) (tp=10×1,000μs)	Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code General	Grade Code Automotive	Taping Code		P_D (mW)	V_Z (V) or V_{BR} (V)	I_Z (mA)				
54	SMF5V0	*	TF	TR	5.0	1,000	6.40 or more	40	200	SOD-123FL (PMDU)		YES
55	SMF6V0		TF	TR	6.0	1,000	6.67 or more	40	200			YES
56	SMF6V5		TF	TR	6.5	1,000	7.22 or more	40	200			YES
57	SMF7V0		TF	TR	7.0	1,000	7.78 or more	40	200			YES
58	SMF7V5		TF	TR	7.5	1,000	8.33 or more	40	200			YES
59	SMF8V0		TF	TR	8.0	1,000	8.89 or more	40	200			YES
60	SMF9V0		TF	TR	9.0	1,000	10.0 or more	40	200			YES
61	SMF10V		TF	TR	10.0	1,000	11.1 or more	20	200			YES
62	SMF11V		TF	TR	11.0	1,000	12.2 or more	20	200			YES
63	SMF12V		TF	TR	12.0	1,000	13.3 or more	20	200			YES
64	SMF13V		TF	TR	13.0	1,000	14.4 or more	20	200			YES
65	SMF14V		TF	TR	14.0	1,000	15.6 or more	20	200			YES
66	SMF15V		TF	TR	15.0	1,000	16.7 or more	20	200			YES
67	SMF16V		TF	TR	16.0	1,000	17.2 or more	20	200			YES
68	SMF17V		TF	TR	17.0	1,000	18.9 or more	20	200			YES
69	SMF18V		TF	TR	18.0	1,000	20.0 or more	20	200			YES
70	SMF20V		TF	TR	20.0	1,000	22.2 or more	10	200			YES
71	SMF22V		TF	TR	22.0	1,000	24.4 or more	10	200			YES
72	SMF24V		TF	TR	24.0	1,000	26.7 or more	10	200			YES
73	SMF26V		TF	TR	26.0	1,000	28.9 or more	10	200			YES
74	SMF28V		TF	TR	28.0	1,000	31.1 or more	10	200			YES
75	SMF30V		TF	TR	30.0	1,000	33.3 or more	10	200			YES
76	SMF33V		TF	TR	33.0	1,000	36.7 or more	10	200			YES
77	VS5V0UA1LAM		TF	TR	5.0	–	6.45 to 7.14	10	600	SOD-128 (PMDTM)		YES
78	VS6V0UA1LAM		TF	TR	6.0	–	6.67 to 7.37	10	600			YES
79	VS7V0UA1LAM		TF	TR	7.0	–	7.78 to 8.60	10	600			YES
80	VS8V0UA1LAM		TF	TR	8.0	–	8.89 to 9.83	1	600			YES
81	VS9V0UA1LAM		TF	TR	9.0	–	10.0 to 11.1	1	600			YES
82	VS10VUA1LAM		TF	TR	10.0	–	11.1 to 12.3	1	600			YES
83	VS11VUA1LAM		TF	TR	11.0	–	12.2 to 13.5	1	600			YES
84	VS12VUA1LAM		TF	TR	12.0	–	13.3 to 14.7	1	600			YES
85	VS13VUA1LAM		TF	TR	13.0	–	14.4 to 15.9	1	600			YES
86	VS14VUA1LAM		TF	TR	14.0	–	15.6 to 17.2	1	600			YES
87	VS15VUA1LAM		TF	TR	15.0	–	16.7 to 18.5	1	600			YES
88	VS16VUA1LAM		TF	TR	16.0	–	17.8 to 19.7	1	600			YES
89	VS17VUA1LAM		TF	TR	17.0	–	18.9 to 20.9	1	600			YES
90	VS18VUA1LAM		TF	TR	18.0	–	20.0 to 22.1	1	600			YES
91	VS20VUA1LAM		TF	TR	20.0	–	22.2 to 24.5	1	600			YES
92	VS22VUA1LAM		TF	TR	22.0	–	24.4 to 26.9	1	600			YES
93	VS24VUA1LAM		TF	TR	24.0	–	26.7 to 29.5	1	600			YES
94	VS26VUA1LAM		TF	TR	26.0	–	28.9 to 31.9	1	600			YES
95	VS28VUA1LAM		TF	TR	28.0	–	31.1 to 34.4	1	600			YES
96	VS30VUA1LAM		TF	TR	30.0	–	33.3 to 36.8	1	600			YES
97	RSDT27RSM	*	TF	TL1	22.0	1,500	24.0 to 30.0	10	1,500	TO-277A (TO-277GE)		YES*1
98	RSDT30RSM		TF	TL1	24.0	1,500	27.0 to 33.0	10	1,500			YES*1
99	RSDT27BM	–	FH	TL	22.0	2,500	24.0 to 30.0	10	2,500	TO-252AA D-PAK (TO-252M)		YES
100	RSDT30BM		FH	TL	24.0	2,500	27.0 to 33.0	10	2,500			YES
101	RSDT27NS	*	FH	TL	22.0	5,000	24.0 to 30.0	10	3,600	TO-263AB D2PAK (TO-263S)		YES
102	RSDT30NS	–	FH	TL	24.0	5,000	27.0 to 33.0	10	3,600			YES

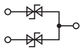
*一般产品的产品性能代码为空白。

*1 某些车载应用可能不适合。详情请咨询罗姆的销售人员。

注：(　)内表示ROHM封装。

TVS
例: V S 3 V 3 B C 1 H S　T 1 5 R
型号　包装代码

双向TVS

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_a=25° C)	Electrical Characteristics (T_a=25° C)		Peak Pulse Power (W) (tp=8/20μs)	Ct (pF) Typ			Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	P_D (mW)	V_{BR} (V)	I_Z (mA)			f (MHz)	V_R (V)			
		General	Automotive											
103	VS3V3BA1FS	*	–	T27N	100	4.0 or more	1	26.5	6	1	0	DSN0402-2 (SMD0402)		–
104	VS3V3BB1FS		–	T27N	100	4.0 or more	1	38	10	1	0			–
105	VS3V3BT1FS		–	T27N	100	4.0 or more	1	21	4.7	1	0			–
106	VS5V0BA1FS		–	T27N	100	5.3 or more	1	26.5	6	1	0			–
107	VS5V0BB1FS		–	T27N	100	5.3 or more	1	45	10	1	0			–
108	VS3V3BC1HS		–	T15R	100	4.0 or more	1	70	18	1	0	DSN0603-2 (SMD0603B)		–
109	VS3V3BA1ES		–	T15R	100	4.0 or more	1	28	6	1	0	DSN0603-2 (SMD0603)		–
110	VS3V3BB1ES		–	T15R	100	4.0 or more	1	45	10	1	0			–
111	VS5V0BA1ES		–	T15R	100	6.0 to 8.0	1	10	5	1	0			–
112	VS5V0BB1ES		–	T15R	100	6.0 to 9.0	1	25	7	1	0			–
113	VS5V0BC1ES		–	T15R	100	6.0 to 9.0	1	60	15	1	0			–
114	VS12VBA1HS		–	T15R	100	12.5 to 15.0	1	70	7	1	0	DSN0603-2 (SMD0603B)		–
115	VS4V5BU1QS		–	T18R	200	5.3 to 6.5	1	600	100	1	0	DSN01006-2 (SMD1006)		–
116	VS4V8BU1AR		–	T7R	–	4.85 to 6.00	1	1,100	480 (Max)	1	0	DSN2012-2 (SMD2012)		–
117	ESD16VHY		FH	T116	225	15.96 to 17.64	1	100	13	1	0	SOT-23 (SSD3)		YES
118	ESD18VHY		FH	T116	225	17.86 to 19.74	1	100	12	1	0			YES
119	ESD27VHY		FH	T116	225	26.41 to 29.19	1	100	8	1	0			YES
120	RESD1CANY		FH	T116	225	26.20 to 32.00	1	350	30 (Max)	1	0			YES

低容量双向TVS

Quick Reference No.	Product No.				Absolute Maximum Ratings (T_a=25°C)	Electrical Characteristics (T_a=25°C)		Remarks	Ct (pF) Typ			Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
	Part No.	Grade Code		Taping Code	P_D (mW)	V_{BR} (V)	I_Z (mA)			f (MHz)	V_R (V)			
		General	Automotive											
121	VS3V3BL1HS	*	–	T15R	100	6.00 to 10.00	1	IEC61000-4-2, 150pF, 330Ω, Contact 20kV, Air 20kV	0.34	1	0	DSN0603-2 (SMD0603B)		–
122	VS3V3BN1HS		–	T15R	100	6.00 to 10.00	1		0.5	1	0			–
123	VS5V0BL1HS		–	T15R	100	6.00 to 10.00	1	IEC61000-4-2, 150pF, 330Ω, Contact 11kV, Air 15kV	0.34	1	0			–
124	VS5V0BN1HS		–	T15R	100	6.00 to 10.00	1		0.5	1	0			–
125	VS5V0BL1QS		–	T18R	200	7.00 or more	1	IEC61000-4-2, 150pF, 330Ω, Contact 15kV, Air 15kV	0.8	1	0	DSN01006-2 (SMD1006)		–

*一般产品的产品性能代码为空白。
注：(　)内表示ROHM封装。

开关二极管

●开关二极管一览表

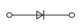
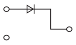
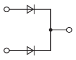
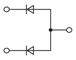
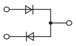
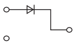
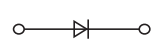
V_R (V)	表面贴装型							
	1006 size	1212 size	1608 size	1616 size	2120 size		2512 size	2924 size
								
	SOD-923 (VMN2M)	SOT-723 (VMD3)	SOD-523 (EMD2)	SOT-416FL (EMD3F)	SOT-323FL (UMD3F)	SOT-323 (UMD3)	SOD-323FL (UMD2)	SOT-23 (SSD3)
20		**DA221ZM**		**DA221WM**				
80	**1SS400CM**	**DAN222ZM** **DAP222ZM**	**1SS400SM**	**DAN222WM** **DAP222WM** **DAN217WM** **DA228WM**	**DAN202UM** **DAP202UM** **DAN217UM** **DA204UM** **DA228UM** **BAV199UM**	**DAN202FM** **DAP202FM** **BAV99FM** **BAV199FM**	**1SS355VM** **1SS380VM**	**BAS16HY** **BAV70HY** **BAW56HY** **BAV99HY** **BAW156HY** **BAV199HY** **BAS116HY** **BAV170HY**
200							**BAS21VM**	**BAS21HY**

注：(　)内表示ROHM封装。

开关二极管

开关二极管
例: 1 S S 3 5 5 V M　F H　T E — 1 7
型号　产品性能代码　包装代码

高速型

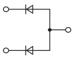
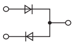
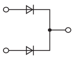
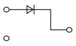
Product No.				Absolute Maximum Ratings (T_a=25˚C)*1					Electrical Characteristics (T_a=25˚C)*1							Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_{FM} (mA)	I_O (mA)	Isurge (mA)	V_F (V) Max		I_R (μA) Max		trr (ns) Max					
	General	Automotive								I_F (mA)		V_R (V)		V_R (V)	I_F (mA)			
1SS400CM	*	—	T2R	90	80	225	100	500 (1s)	1.2	100	0.1	80	4	6	10	SOD-923 (VMN2M)		—
1SS400SM		FH	T2R	90	80	225	100	500 (1s)	1.2	100	0.1	80	4	6	10	SOD-523 (EMD2)		YES
1SS355VM		FH	TE-17	90	80	225	100	500 (1s)	1.2	100	0.1	80	4	6	10	SOD-323FL (UMD2)		YES
BAS16HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.1	80	4	10*2	10	SOT-23 (SSD3)		YES
DAN222ZM		—	T2L	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-723 (VMD3)		—
DAN222WM		—	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-416FL (EMD3F)		—
DAN202UM		—	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-323FL (UMD3F)		—
DAN202FM		FH	T106	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-323 (UMD3)		YES
BAV70HY		FH	T116	90	80	450	215*3	4,000 (1μs)	1.25	150	0.5	80	4	10*2	10	SOT-23 (SSD3)		YES
DAP222ZM		—	T2L	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-723 (VMD3)		—
DAP222WM		—	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-416FL (EMD3F)		—
DAP202UM		—	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-323FL (UMD3F)		—
DAP202FM		FH	T106	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-323 (UMD3)		YES
BAW56HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.1	80	4	10*2	10	SOT-23 (SSD3)		YES
DAN217WM		FH	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.1	70	4	6	5	SOT-416FL (EMD3F)		YES
DAN217UM		—	TL	80	80	300	100	4,000 (1μs)	1.2	100	0.2	70	4	6	5	SOT-323FL (UMD3F)		—
BAV99HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.1	80	4	10*2	10	SOT-23 (SSD3)		YES
☆**BAV99FM**		FH	T106	100	80	500	215*3	4,000 (1μs)	1.25	150	0.1	80	4	10*2	10	SOT-323 (UMD3)		YES
BAS21HY		FH	T116	250	200	—	200*3	10,000 (1μs)	1	100	0.1	200	50	30*2	30	SOT-23 (SSD3)		YES
BAS21VM		FH	TE-17	250	200	—	200*3	10,000 (1μs)	1	100	0.1	200	50	30*2	30	SOD-323FL (UMD2)		YES

*一般产品的产品性能代码为空白。
*1 每个元件的规格。　*2 I_R(mA)值，非V_R(V)。 *3 $I_{F(mA)}$值。
注：(　)内表示ROHM封装。

☆: 开发中

开关二极管
例: 1 S S 3 5 5 V M　F H　T E — 1 7
型号　产品性能代码　包装代码

低漏失型

Product No.				Absolute Maximum Ratings (T_a=25˚C)*1					Electrical Characteristics (T_a=25˚C)*1							Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
Part No.	Grade Code		Taping Code	V_{RM} (V)	V_R (V)	I_{FM} (mA)	I_O (mA)	Isurge (mA)	V_F (V) Max	I_F (mA)	I_R (μA) Max	V_R (V)	trr (ns) Max	V_R (V)	I_F (mA)			
	General	Automotive																
1SS380VM	*	FH	TE-17	80	80	225	100	400 (1s)	1.2	100	0.01	80	—	—	—	SOD-323FL (UMD2)		YES
BAW156HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10	SOT-23 (SSD3)		YES
BAV199HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10	SOT-23 (SSD3)		YES
☆BAV199FM		FH	T106	100	80	500	215*3	4,000 (1μs)	1.25	150	0.01	75	3,000	10*2	10	SOT-323 (UMD3)		YES
BAV199UM		FH	TL	100	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10	SOT-323FL (UMD3F)		YES
DA204UM		—	TL	20	20	200	100	300 (1μs)	1.0	10	0.1	15	—	—	—			—
DA228UM		—	TL	80	80	200	100	300 (1μs)	1.2	100	0.01	80	—	—	—			—
DA221ZM		—	T2L	20	20	200	100	300 (1μs)	1	10	0.1	15	—	—	—	SOT-723 (VMD3)		—
DA221WM		—	TL	20	20	200	100	300 (1μs)	1	10	0.1	15	—	—	—	SOT-416FL (EMD3F)		—
DA228WM		—	TL	80	80	200	100	4,000 (1μs)	1.2	100	0.1	80	—	—	—			—
BAV170HY		FH	T116	90	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10	SOT-23 (SSD3)		YES
BAS116HY		FH	T116	100	80	500	215*3	4,000 (1μs)	1.25	150	0.005	75	3,000	10*2	10			YES

*一般产品的产品性能代码为空白。
*1 每个元件的规格。　*2 I_R(mA)值，非V_R(V)。 *3 $I_{F(mA)}$值。
注：(　)内表示ROHM封装。

☆: 开发中

高频二极管

●高频二极管一览表

	V_R (V)	表面贴装型				
		1006 size		1608 size	2120 size	2512 size
						
		DFN1006-2W (DFN1006-2W)	SOD-923 (VMN2M)	SOD-523 (EMD2)	SOT-323 (UMD3)	SOD-323FL (UMD2)
Band Switching Diode	35			**1SS390SM**	**DAN235FM**	
PIN Diode	50		**RN141CM**			
	60			**RN142SM**		**RN142VM**
Detection Schottky Diode	5	**RB886ASA**	**RB886CM**			

注：(　)内表示ROHM封装。

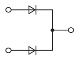
高频二极管

高频二极管

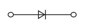
例: 1 S S 3 9 0 S M　F H　T 2 R

型号　产品性能代码　包装代码

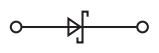
频带开关二极管

Product No.				Absolute Maximum Ratings (T_a=25˚C)			Electrical Characteristics (T_a=25˚C)						Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
Part No.	Grade Code		Taping Code	V_R (V)	T_j (˚C)	Tstg (˚C)	Ct (pF) Max			rF (Ω) Max					
	General	Automotive						V_R (V)	f (MHz)		I_F (mA)	f (MHz)			
1SS390SM	*	FH	T2R	35	150	−55 to +150	1.2	6	1	0.9	2	100	SOD-523 (EMD2)		YES
DAN235FM		FH	T106	35	150	−55 to +150	1.2	6	1	0.9	2	100	SOT-323 (UMD3)		YES

PIN 二极管

Product No.				Absolute Maximum Ratings (T_a=25˚C)				Electrical Characteristics (T_a=25˚C)						Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
Part No.	Grade Code		Taping Code	V_R (V)	I_F (mA)	T_j (˚C)	Tstg (˚C)	Ct (pF) Max			rF (Ω) Max					
	General	Automotive							V_R (V)	f (MHz)		I_F (mA)	f (MHz)			
RN141CM	*	—	T2R	50	100	150	−55 to +150	0.8	1	1	2	3	100	SOD-923 (VMN2M)		—
RN142SM		—	T2R	60	100	150	−55 to +150	0.45	1	1	3	3	100	SOD-523 (EMD2)		—
RN142VM		—	TE-17	60	100	150	−55 to +150	0.45	1	1	3	3	100	SOD-323FL (UMD2)		—

检波肖特基势垒二极管

Product No.				Absolute Maximum Ratings (T_a=25˚C)				Electrical Characteristics (T_a=25˚C)					Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101
Part No.	Grade Code		Taping Code	V_R (V)	I_F (mA)	T_j (˚C)	Tstg (˚C)	V_F (V) Max		Ct (pF) Max					
	General	Automotive							I_F (mA)		V_R (V)	f (MHz)			
RB886CM	*	—	T2R	5	10	125	−40 to +125	0.35	1	0.80	1	1	SOD-923 (VMN2M)		—
RB886ASA	—	FH	T2RB	5	10	150	−55 to +150	0.35	1	0.8	1	1	DFN1006-2W (DFN1006-2W)		YES

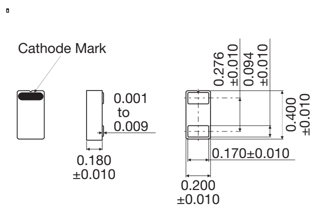
*一般产品的产品性能代码为空白。
注：(　)内表示ROHM封装。

封装

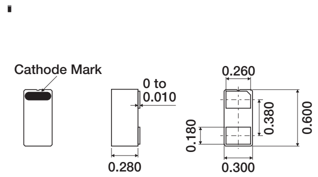
■外形尺寸图 (单位：mm)

表面贴装型

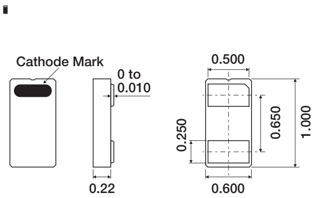
DSN0402-2 (SMD0402)



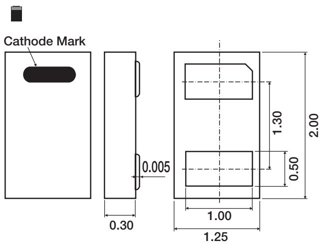
DSN0603-2 (SMD0603) (SMD0603B)



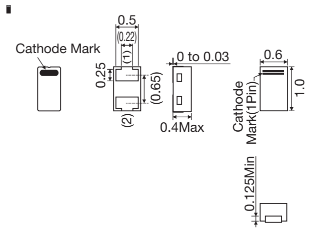
DSN1006-2 (SMD1006)



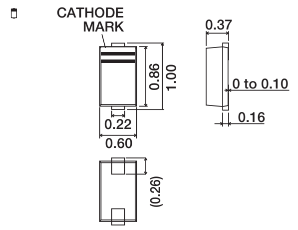
DSN2012-2 (SMD2012)



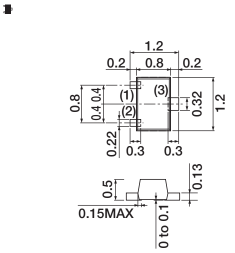
DFN1006-2W (DFN1006-2W)



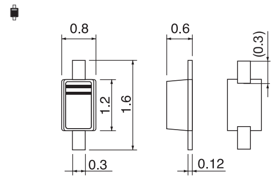
SOD-923 (VMN2M)



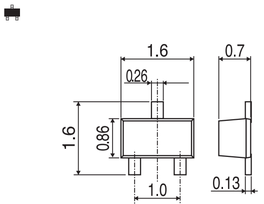
SOT-723 (VMD3)



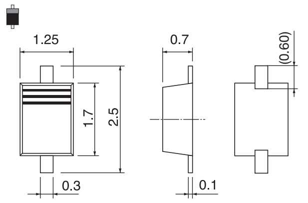
SOD-523 (EMD2)



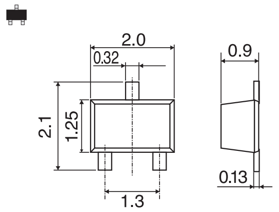
SOT-416FL (EMD3F)



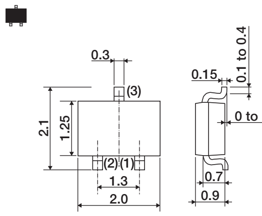
SOD-323FL (UMD2)



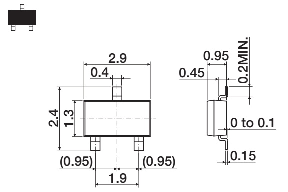
SOT-323FL (UMD3F)



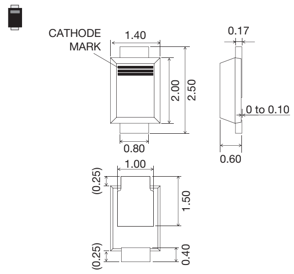
SOT-323 (UMD3)



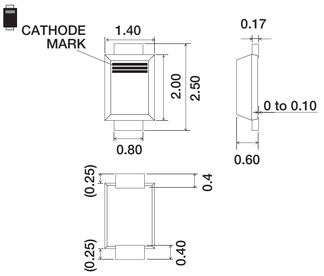
SOT-23 (SSD3)



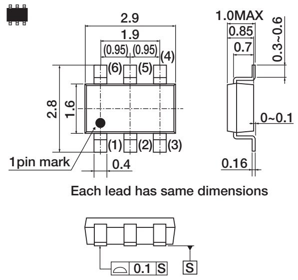
SOD-323HE (TUMD2M)



SOD-323HE (TUMD2SM)



SOT-457T (TSMD6)



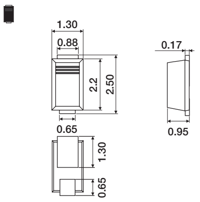
注：(　)内表示ROHM封装。

封装

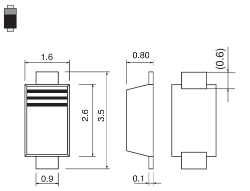
●外形尺寸图 (单位：mm)

表面贴装型

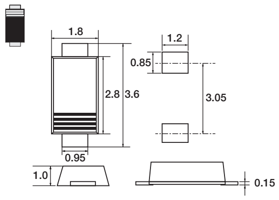
(PMDE)



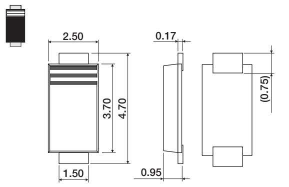
SOD-123FL (PMDU)



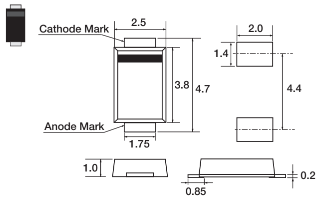
SOD-123FL (PMDUP)



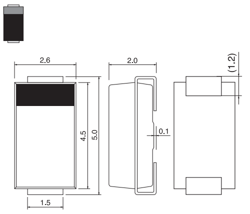
SOD-128 (PMDTM)



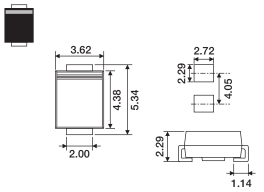
SOD-128 (PMDTP)



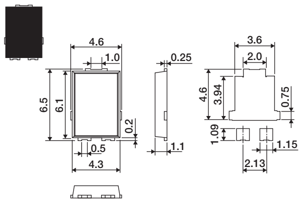
DO-214AC SMA (PMDS)



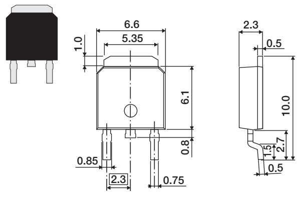
DO-214AA SMB (SMBP)



TO-277A (TO-277GE)

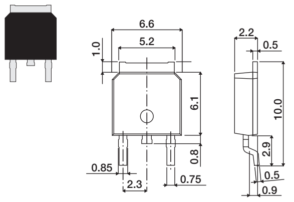


TO-252 D-PAK (TO-252GE)



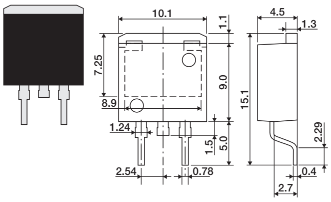
Each lead has same dimensions

TO-252 D-PAK (TO-252M)



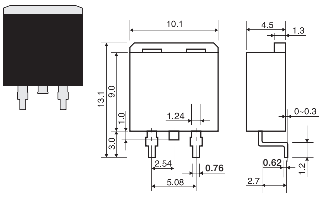
Each lead has same dimensions

TO-263AB D2PAK (TO-263L)



Each lead has same dimensions

TO-263AB D2PAK (TO-263S)

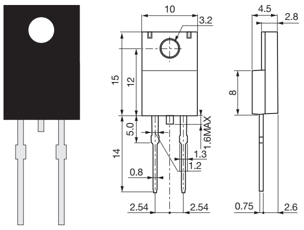


Each lead has same dimensions

注：( )内表示ROHM封装。

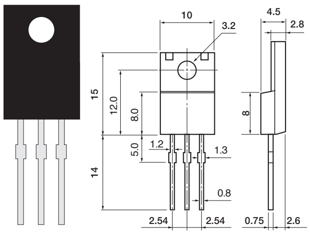
引脚插入型

TO-220AB (TO-220FN) <2pin>



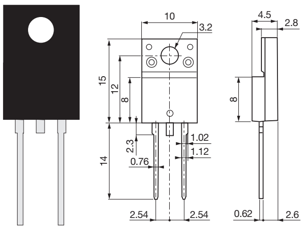
Each lead has same dimensions

TO-220AB (TO-220FN) <3pin>



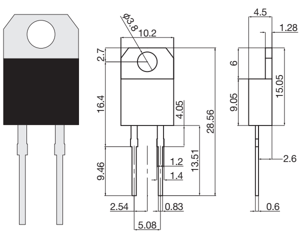
Each lead has same dimensions

TO-220AB (TO-220NFM) <2pin>



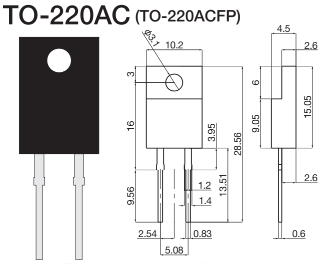
Each lead has same dimensions

TO-220AC (TO-220AC)



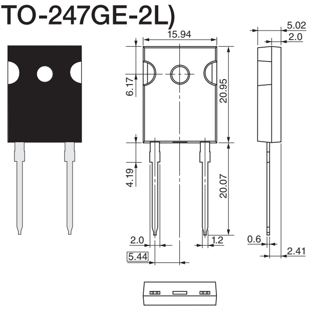
Each lead has same dimensions

TO-220AC (TO-220ACFP)



Each lead has same dimensions

**TO-247-2L
(TO-247GE-2L)**



Each lead has same dimensions

注：( )内表示ROHM封装。

品名构成说明

- 订货时，请指明品名代码
- 请参照下表核对每一个代码
- 请由左至右填写品名代码

•肖特基势垒二极管

例:

RB751SM−40	FH	T2R
型号	产品性能代码	包装代码

•保护元件

例:

UMZ6.8NFM	FH	T106
型号	产品性能代码	包装代码

•快速恢复二极管

例:

RF01VM2S	FH	TE−17
型号	产品性能代码	包装代码

•TVS

例:

VS5V0UA1VWM	TF	TR
型号	产品性能代码	包装代码

•整流二极管

例:

RR1VWM4S	TF	TR
型号	产品性能代码	包装代码

•开关二极管

例:

1SS355VM	FH	TE−17
型号	产品性能代码	包装代码

•齐纳二极管

例:

EDZV	FH	T2R	3.6	B
型号	产品性能代码	包装代码	齐纳电压	细区分

•高频二极管

例:

1SS390SM	FH	T2R
型号	产品性能代码	包装代码

•包装代码

Package					Size (mm)	Height (mm)	Taping Code	Packing Specifications	Direction	Quantity (pcs)
	GENERAL Code	JEDEC Code	ROHM Package	JEITA Code						
Surface Mount type	DSN0402-2 [SOD-992]	–	(SMD0402)	–	0402	0.18	T27R T27N	Embossed tape	Cathode on sprocket hole side Non-direction	27,000
	DSN0603-2 [SOD-962]	–	(SMD0603) (SMD0603B)	–	0603	0.28	T15R	Embossed tape	Cathode on sprocket hole side	15,000
	DSN1006-2 [SOD-993]	–	(SMD1006)	–	1006	0.22	T18R	Embossed tape	Cathode on sprocket hole side	18,000
	DFN1006-2W [SOD-882]	–	(DFN1006-2W)	–	1006	0.4	T2RB	Embossed tape	Cathode on sprocket hole side	8,000
	SOT-723	–	(VMD3)	SC-105AA	1212	0.5	T2L	Embossed tape	One terminal on sprocket hole side	8,000
	SOD-923	–	(VMN2M)	SC-121	1006	0.37	T2R	Embossed tape	Cathode on sprocket hole side	8,000
	SOD-523	–	(EMD2)	SC-79	1608	0.6	T2R T2N	Embossed tape	Cathode on sprocket hole side Non-direction	8,000
	SOT-416FL	–	(EMD3F)	SC-89	1616	0.7	TL	Embossed tape	One terminal on sprocket hole side	3,000
	DSN2012-2	–	(SMD2012)	–	2012	0.3	T7R	Embossed tape	Cathode on sprocket hole side	7,000
	SOD-323FL	–	(UMD2)	SC-90A	25125	0.7	TE-17	Embossed tape	Cathode on sprocket hole side	3,000
	SOT-323	–	(UMD3)	SC-70	2120	0.9	T106	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-323FL	–	(UMD3F)	SC-85	2120	0.9	TL	Embossed tape	One terminal on sprocket hole side	3,000
	SOT-23	–	(SSD3)	–	2429	0.95	T116	Embossed tape	One terminal on sprocket hole side	3,000
	SOD-323HE	–	(TUMD2M) (TUMD2SM)	SC-108B –	2514	0.6	TR	Embossed tape	Cathode on sprocket hole side	3,000
	–	–	(PMDE)	–	2513	0.95	TR	Embossed tape	Cathode on sprocket hole side	3,000
	SOT-457T	–	(TSMD6)	SC-74	2829	1.10	T108	Embossed tape	4/5/6pin come to sprocket hole side.	3,000
	SOD-123FL	–	(PMDU) (PMDUP)	SC-109B	3516	0.8	TR	Embossed tape	Cathode on sprocket hole side	3,000
	SOD-128	–	(PMDTM) (PMDTP)	–	4725	0.95	TR	Embossed tape	Cathode on sprocket hole side	3,000
	SMA	DO-214AC	(PMDS)	–	4526	2	TE25	Embossed tape	Cathode on sprocket hole side	1,500
	SMB	DO-214AA	(SMBP)	–	5336	2.3	TBR1	Embossed tape	Cathode on sprocket hole side	3,000
	–	TO-277A	(TO-277M) (TO-277GE)	– –	6546	1.1	TL TL1	Embossed tape	Cathode on sprocket hole side	4,000
	D-PAK	TO-252AA	(TO-252M) (TO-252GE)	SC-63	10066	2.3	TL	Embossed tape	Fin on sprocket hole side	2,500
	D2PAK	TO-263AB	(TO-263S) (TO-263L)	SC-83	131101 151101	4.5	TL	Embossed tape	Fin on sprocket hole side	2,500
Throuth Hole type	–	TO-220AB	(TO-220FN) <2pin> (TO-220FN) <3pin> (TO-220NFM)	–	29×10	4.5	C9	Tube	–	1,000
	–	TO-220AC	(TO-220ACFP) (TO-220AC)	–	28.56×10.2	4.5	C9	Tube	–	1,000
	–	TO-247-2L	(TO-247GE-2L)	–	41.0×15.9	5.0	C13	Tube	–	600

电阻器

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⇨ 点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

电阻器尺寸一览表

分流电阻器

大功率金属板分流电阻器产品阵容

Size mm (inch)	Part No.	Terminal type Wide Terminal	Attached type Reverse Attached	Specification			Resistance Range (mΩ)	Rated Power (W) (Rated Terminal Temperature)	Printing Page
				General-purpose	Ultra-low resistance	High Power			
5025 (2010)	GMR50				✓	✓	5 to 220	4 (90°C) 3 (110°C)	P.232
6432 (2512)	PSR100				✓	✓	☆0.2	12 (120°C)	P.230
							0.3, 0.5, 1	8 (75°C) 4 (140°C)	
							2	6 (75°C) 4 (140°C)	
							3	4 (75°C) 3 (140°C)	
	GMR100				✓	✓	5 to 220	7 (70°C) 5 (110°C)	P.232
6464 (2525)	☆PSR330				✓	✓	0.1	15 (120°C)	P.230
							0.5	8 (100°C)	
							1	6 (100°C)	
7142 (2817)	GMR320				✓	✓	5 to 100	10 (70°C) 7 (110°C)	P.232
7.9×5.6 (3222)	PSR350				✓	✓	0.27	12 (120°C)	P.231
10×5.2 (3921)	PSR400				✓	✓	0.2	12 (75°C) 5 (130°C)	P.230
							0.3, 0.5	10 (75°C) 5 (130°C)	
							1	8 (75°C) 5 (130°C)	
							2	6 (75°C) 4 (115°C)	
							3	5 (70°C) 3 (115°C)	
15×7.75 (5931)	PSR500				✓	✓	0.1, 0.2	15 (75°C) 10 (120°C)	P.230
							0.3, 0.4, 0.5	10 (75°C) 7 (120°C)	
							1	10 (75°C) 6 (120°C)	
							2	7 (70°C) 4 (115°C)	

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金属板分流电阻器产品阵容

Size mm (inch)	Part No.	Terminal type Wide Terminal	Attached type Reverse Attached	Specification			Resistance Range (mΩ)	Rated Power (W)	Printing Page
				General-purpose	Ultra-low resistance	High Power			
1005 (0402)	PMR01				✓		10	0.2	P.234
1608 (0603)	PMR03				✓		10	0.25	P.234
2012 (0805)	PMR10				✓		2	1	P.234
							3 to 10	0.5	
	☆PMR10L				✓		0.5 to 2	2	P.235
							3 to 10	1	
1220 (0508)	PML10	✓			✓		1 to 2.5	0.66	P.236
3216 (1206)	PMR18				✓		1, 2	1.5	P.234
							3 to 10	1	
	☆PMR18L				✓		0.5 to 2	3	P.235
							3 to 10	1.5	
1632 (0612)	PML18	✓			✓		0.5 to 2.5	1	P.236
3225 (1210)	PMR25				✓		1	2	P.234
							2 to 5	1	
5025 (2010)	PMR50				✓		1, 2	2	P.234
							3 to 10	1	
2550 (1020)	PML50	✓			✓		0.5, 2.2	2	P.236
6432 (2512)	PMR100				✓	✓	0.5 to 1.5	☆5	P.233
					✓		1, 2	3	P.234
							3 to 10	2	
3264 (1225)	PML100	✓			✓		0.5	2	P.236
							1 to 2.2	3 (25°C)* 2 (70°C)*	

*额定环境温度

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厚膜分流电阻器产品阵容

Size mm (inch)	Part No.	Terminal type Wide Terminal	Attached type Reverse Attached	Specification			Resistance Range (mΩ)	Rated Power (W)	Printing Page
				General-purpose	Ultra-low resistance	High Power			
0603 (0201)	UCR006		✓				100 to 910	0.1	P.239
1005 (0402)	UCR01		✓				68 to 910	0.125	P.239
1608 (0603)	UCR03		✓				20 to 200	0.25	P.239
							220 to 910	0.2	
2012 (0805)	☆UCR10C		✓			✓	10 to 12	1	P.238
							13 to 100	1.25	
	UCR10		✓				11 to 100	0.33	P.239
	MCR10L			✓		✓	47 to 910	0.5	P.240
1220 (0508)	LTR10L	✓				✓	33 to 910	1	P.237
3216 (1206)	☆UCR18C		✓			✓	10 to 100	1.75	P.238
	UCR18		✓				11 to 39	1	P.239
							43 to 100	0.5	
	MCR18L			✓		✓	47 to 910	0.75	P.240
1632 (0612)	LTR18	✓				✓	10 to 1000	1.5	P.237
3225 (1210)	☆MCR25L			✓		✓	47 to 910	1.25	P.240
5025 (2010)	☆MCR50L			✓		✓	47 to 910	2	P.240
2550 (1020)	LTR50	✓				✓	10 to 910	New 3	P.237
6432 (2512)	☆MCR100L			✓		✓	47 to 910	3	P.240
3264 (1225)	LTR100L	✓				✓	10 to 91	4	P.237
	LTR100	✓				✓	100 to 910	New 3	P.237

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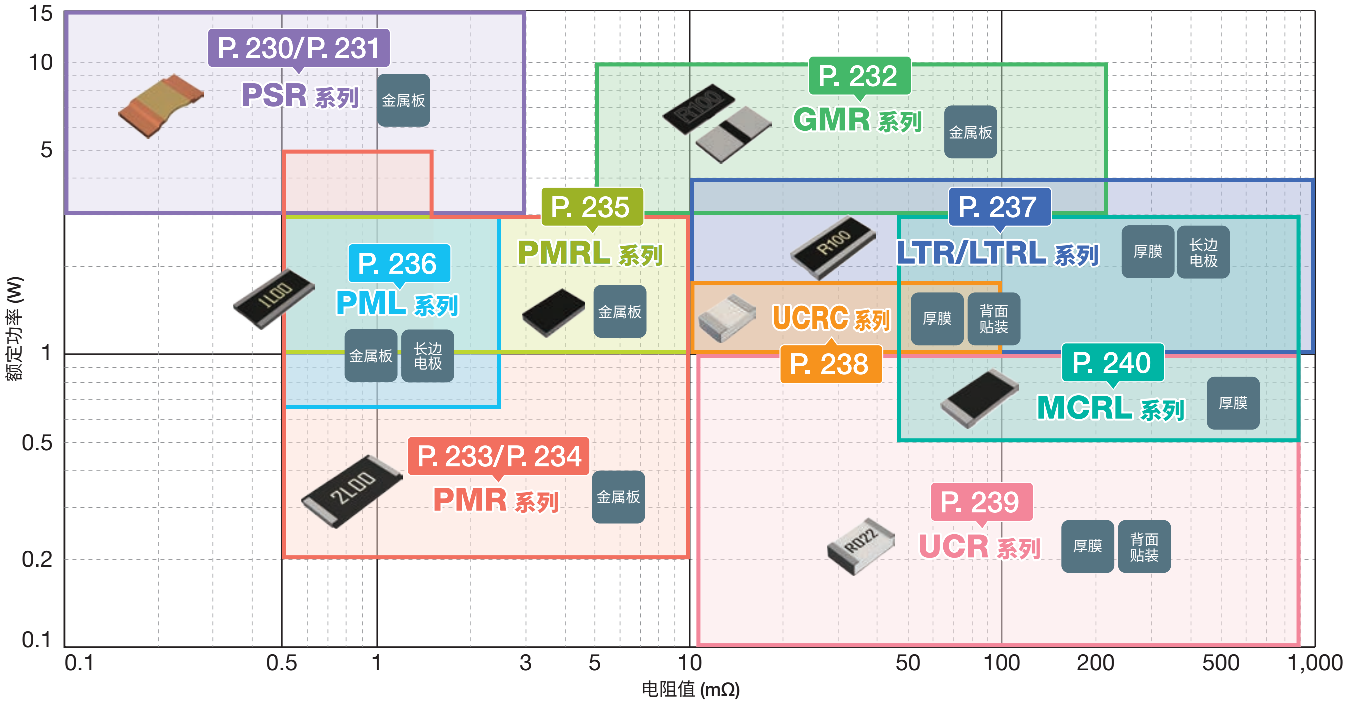
电阻器尺寸一览表

分流电阻器一览表



厚膜贴片电阻器(通用型/高可靠型)

厚膜贴片电阻器(通用型/高可靠型)产品阵容

Size mm (inch)	Part No.	RASMID™ package	Terminal type Wide Terminal	Specification						Resistance Range (Ω)	Rated Power (W)	Printing Page
				General-purpose	Tolerance for Sulfurization	Anti-surge	High Anti-surge	High Power	High Voltage Resistance			
03015 (009005)	SMR003	✓								10 to 1M	0.02	P.252
0402 (01005)	MCR004			✓						1 to 1M	0.031 (1/32)	P.248
	New MCR004E			✓						1 to 1M	0.031 (1/32)	P.249
0603 (0201)	MCR006			✓						1 to 10M	0.05	P.248
1005 (0402)	ESR01					✓				1 to 10M	0.2	P.241
	SFR01				✓					1 to 10M	0.063 (1/16)	P.245
	MCR01S			✓				✓		1 to 10M	0.1	P.246
	MCR01			✓						1 to 10M	0.063 (1/16)	P.248
1608 (0603)	SDR03						✓			1 to 10M	New 0.4	P.241
	ESR03					✓				1 to 976	New 0.33 (1/3)	P.241
										1k to 10M	0.25	
	KTR03								✓	1 to 10M	0.1	P.244
	SFR03				✓					1 to 10M	0.1	P.245
	MCR03S			✓				✓		1 to 10M	0.125	P.246
	MCR03			✓						1 to 10M	0.1	P.248
2012 (0805)	SDR10						✓			1 to 10M	New 0.66 (2/3)	P.241
	ESR10					✓				1 to 976	New 0.5	P.241
										1k to 10M	0.4	
	KTR10								✓	1 to 30M	0.125	P.244
	SFR10				✓					1 to 10M	0.125	P.245
	MCR10S			✓				✓		1 to 10M	0.25	P.246
	MCR10			✓						10 to 1M	0.1	P.248
										1 to 10M	0.125	
1220 (0508)	LTR10		✓			✓		✓		1 to 976	1	P.243
										1k to 1M	0.25	
3216 (1206)	ESR18					✓				1 to 976	New 0.75	P.241
										1k to 10M	0.5	
	KTR18								✓	1 to 10M	0.25	P.244
	SFR18				✓					1 to 10M	0.25	P.245
	MCR18S			✓				✓		1 to 10M	0.4	P.246
	MCR18			✓						10 to 1M	0.125	P.248
										1 to 10M	0.25	
1632 (0612)	LTR18		✓			✓		✓		1 to 976	1.5	P.243
										1k to 1M	0.75	
3225 (1210)	ESR25					✓				1 to 10M	New 1	P.241
	KTR25								✓	1 to 10M	0.33 (1/3)	P.244
	SFR25				✓					1 to 1M	0.5	P.245
	☆MCR25S			✓				✓		1 to 1M	0.5	P.246
5025 (2010)	New MCR50S			✓				✓		1 to 4.7M	1.5	P.246
2550 (1020)	LTR50		✓			✓		✓		1 to 1M	1, ☆2	P.243
6432 (2512)	New MCR100S			✓				✓		1 to 4.7M	2	P.246
3264 (1225)	LTR100		✓			✓		✓		1 to 1M	New 3	P.243

◎RASMID™：采用ROHM自有的新工艺，实现小型化，具有高精度尺寸的超小型产品系列。
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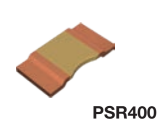
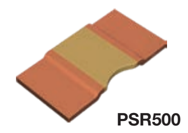
电流检测用
大功率金属板分流电阻器 超低阻值型：PSR系列

- 3W～15W大功率
- 出色的温度特性
- 采用凸型形状
- 超低阻值范围(0.1mΩ及以上)


PSR100


PSR330


PSR400


PSR500

PSR系列

Part No.	Size Code mm (inch)	Rated Power (W) (Rated Terminal Temperature)		Tolerance	Temperature* Coefficient (ppm/°C)	Resistance Value (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
		Low temperature side	High temperature side					
PSR100	6432 (2512)	12 (120˚C)		F (±1%)	150±50	☆0.2	−65 to +175	YES
		8 (75˚C)	4 (140˚C)		0 to +150	0.3		
		8 (75˚C)	4 (140˚C)		0 to +100	0.5		
		8 (75˚C)	4 (140˚C)		0 to +100	1.0		
		6 (75˚C)	4 (140˚C)		0 to +50	2.0		
		4 (75˚C)	3 (140˚C)		0 to +50	3.0		
☆PSR330	6464 (2525)	15 (120˚C)		F (±1%)	100±50	0.1		YES
		8 (100˚C)			0 to +100	0.5		
		6 (100˚C)			0 to +50	1.0		
PSR400	10×5.2 (3921)	12 (75˚C)	5 (130˚C)	F (±1%)	125±50	0.2		YES
		10 (75˚C)	5 (130˚C)		0 to +100	0.3		
		10 (75˚C)	5 (130˚C)		0 to +100	0.5		
		8 (75˚C)	5 (130˚C)		0 to +75	1.0		
		6 (75˚C)	4 (115˚C)		0 to +75	2.0		
		5 (70˚C)	3 (115˚C)		0 to +75	3.0		
PSR500	15×7.75 (5931)	15 (75˚C)	10 (120˚C)	F (±1%)	200±50	0.1		YES
		15 (75˚C)	10 (120˚C)		0 to +150	0.2		
		10 (75˚C)	7 (120˚C)		0 to +150	0.3		
		10 (75˚C)	7 (120˚C)		0 to +150	0.4		
		10 (75˚C)	7 (120˚C)		0 to +150	0.5		
		10 (75˚C)	6 (120˚C)		0 to +75	1.0		
		7 (70˚C)	4 (115˚C)		0 to +75	2.0		

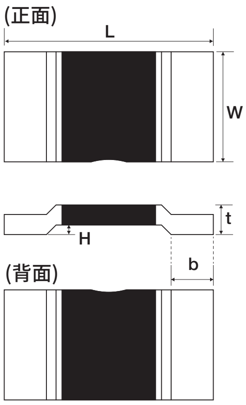
*(+20° C to +175° C)

☆：开发中

■尺寸 (单位：mm)

Part No.	Resistance (mΩ)	L	W	t	H	b
PSR100	0.2	6.35±0.15	3.05±0.25	1.80±0.15	0.35±0.15	1.12±0.3
	0.3			1.45±0.15		
	0.5			1.15±0.15		
	1.0			0.75±0.15		
	2.0			1.00±0.15		
	3.0			0.75±0.15		
PSR330	0.1	6.35±0.15	6.35±0.25	1.81±0.15	0.35±0.15	1.12±0.3
	0.5			0.75±0.15		
	1.0			1.00±0.15		
PSR400	0.2	10±0.3	5.2±0.3	1.9±0.15	0.5±0.15	2.0±0.6
	0.3			1.85±0.15		
	0.5			1.3±0.15		
	1.0			0.9±0.15		
	2.0			1.1±0.15		
	3.0			0.9±0.15		
PSR500	0.1	15±0.3	7.75±0.3	1.96±0.15	0.5±0.15	4.6±0.6
	0.2			1.85±0.15		4.0±0.6
	0.3			1.4±0.15		
	0.4			1.15±0.15		
	0.5			1.05±0.15		
	1.0			1.35±0.15		
	2.0			0.9±0.15		

●PSR100/330/400/500



■品名构成说明

P S R 4 0 0 I T Q F □ □ □ □ □

型号

阻值容差

F	±1%

特殊品名代码

B	0.1mΩ	F	0.5mΩ
C	0.2mΩ	H	1.0mΩ
D	0.3mΩ	J	2.0mΩ
E	0.4mΩ	L	3.0mΩ

公称阻值

Resistance code, 4 digits.

Tolerance		Resistance code
F	:	4 digits

Resistance	F
0.1mΩ	0L10
0.2mΩ	0L20
0.3mΩ	0L30
0.4mΩ	0L40
0.5mΩ	0L50
1.0mΩ	1L00
2.0mΩ	2L00
3.0mΩ	3L00

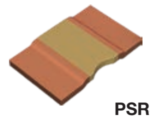
包装规格代码

Part No.	Code	Tolerance	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		F (±1%)			
PSR100	ITQ*	◎	Embossed tape (8mm Pitch)	ϕ330mm (13inch)	3,000
	KTQ*	◎	Embossed tape (8mm Pitch)	ϕ330mm (13inch)	5,000
PSR330	ITQ	◎	Embossed tape (8mm Pitch)	ϕ330mm (13inch)	3,000
PSR400	ITQ	◎	Embossed tape (8mm Pitch)	ϕ330mm (13inch)	3,000
PSR500	HTQ	◎	Embossed tape (12mm Pitch)	ϕ330mm (13inch)	2,000

*ITQ：适用于0.2mΩ
*KTQ：适用于0.3mΩ ～ 3.0mΩ
◎：标准产品　卷轴 (ϕ330mm)：遵循JEITA规格“EIAJ ET-7200B”

电流检测用
大功率金属板分流电阻器 超低阻值・薄型：PSR350

- 薄型结构非常适用于内置功率模块内
- 与大一个尺寸产品同等功率，从而节省空间
- 最大支持210A


PSR350

PSR350

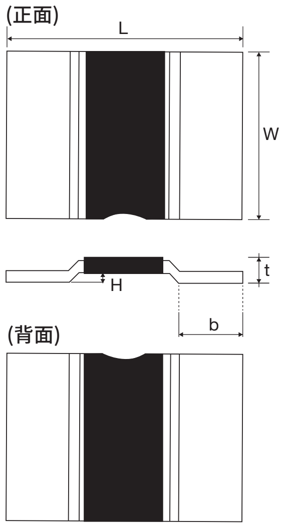
Part No.	Size Code mm (inch)	Rated Power (W)	Rated Terminal Temperature (°C)	Tolerance	Temperature* Coefficient (ppm/°C)	Resistance Value (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
PSR350	7.9×5.6 (3222)	12	120	F (±1%)	0 to +150	0.27	−65 to +175	YES

*(+20° C to +175° C)

■尺寸 (单位：mm)

Part No.	Resistance (mΩ)	L	W	t	H	b
PSR350	0.27	7.9±0.1	5.6±0.3	0.85±0.15	0.35±0.15	2.1±0.20

●PSR350



■品名构成说明

PSR350 KTQ F CW 0L27

型号

阻值容差

F	±1%

特殊品名代码

CW	0.27mΩ

公称阻值

Resistance code, 4 digits.

Tolerance		Resistance code
F	:	4 digits

Resistance	F
0.27mΩ	0L27

包装规格代码

Part No.	Code	Tolerance F (±1%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
PSR350	KTQ	◎	Embossed tape (8mm Pitch)	ϕ330mm (13inch)	5,000

◎：标准产品　卷轴 (ϕ330mm)：遵循JEITA规格“EIAJ ET-7200B”

电流检测用
大功率金属板分流电阻器：GMR系列

- 3W～10W大功率
- 出色的散热性能
- 出色的温度特性
- 阻值范围5mΩ～220mΩ


GMR50


GMR100


GMR320

GMR系列

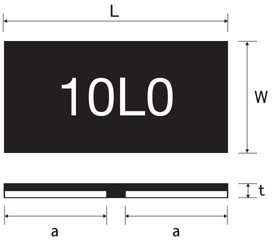
Part No.	Size Code mm (inch)	Rated Power (W)	Rated Terminal Temperature (°C)	Tolerance	Temperature*1 Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
GMR50	5025 (2010)	4	90	F (±1%)	0 to +25	5mΩ	−65 to +170	YES
					±25	10mΩ to 220mΩ (E24 series)*2		
		3	110	F (±1%)	0 to +25	5mΩ		
					±25	10mΩ to 220mΩ (E24 series)*2		
GMR100	6432 (2512)	7	70	F (±1%)	0 to +50	5mΩ		YES
					±25	10mΩ to 220mΩ (E24 series)*2		
		5	110	F (±1%)	0 to +50	5mΩ		
					±25	10mΩ to 220mΩ (E24 series)*2		
GMR320	7142 (2817)	10	70	F (±1%)	0 to +50	5mΩ		YES
					±25	10mΩ to 100mΩ (E24 series)*2		
		7	110	F (±1%)	0 to +50	5mΩ		
					±25	10mΩ to 100mΩ (E24 series)*2		

*1 (+20° C to +60° C)
*2 每个电阻值的开发日程不同。请另行联系。

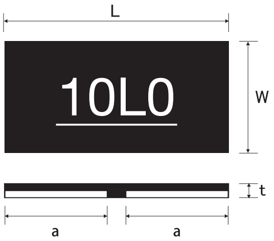
■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a
GMR50	5025 (2010)	5.00±0.25	2.50±0.25	0.40±0.15	2.05±0.25
GMR100	6432 (2512)	6.40±0.25	3.20±0.25	0.40±0.15	2.75±0.25
GMR320	7142 (2817)	7.10±0.25	4.20±0.25	0.40±0.15	3.10±0.25

●GMR50/320



●GMR100



■品名构成说明

G M R 1 0 0 H J A A F D □□□□

型号

产品规格

JA	5mΩ
JB	10mΩ≤R<100mΩ
JC	100mΩ≤R≤220mΩ

A	Outside E24系列

阻值容差

F	±1%

特殊品名代码

A	10mΩ, 100mΩ
D	5mΩ
E	15mΩ, 150mΩ
G	18mΩ
H	20mΩ
I	22mΩ, 220mΩ
K	27mΩ
M	33mΩ
Q	47mΩ
W	82mΩ

公称阻值

Resistance code, 4 digits.

Tolerance		Resistance code
F	:	4 digits

Resistance	F
5mΩ	5L00
10mΩ	10L0
15mΩ	R015
20mΩ	R020
22mΩ	R022
27mΩ	R027
33mΩ	R033
47mΩ	R047
82mΩ	R082
100mΩ	R100
150mΩ	R150
220mΩ	R220

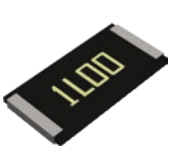
包装规格代码

Part No.	Code	Tolerance F (±1%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
GMR50	H	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	2,000
GMR100	H	◎	Embossed tape (8mm Pitch)	ϕ180mm (7inch)	2,000
GMR320	H	◎	Embossed tape (8mm Pitch)	ϕ180mm (7inch)	2,000

卷轴(ϕ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

电流检测用
金属板分流电阻器 超低阻值・大功率型：PMR100

- 6432规格实现额定功率5W，有助于电路省空间
- 阻体采用特殊合金，实现优异的温度特性
- 电流检测用贴片电阻器：支持0.5mΩ以上



PMR100

PMR100 大功率型

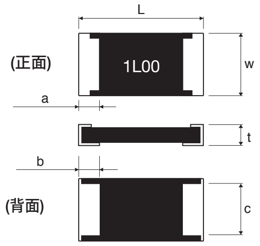
Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Value (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
☆PMR100	6432 (2512)	5	–	130	F (±1%)	±75	0.5	−65 to +175	YES
				110			1		
				90			1.5		

☆：开发中

■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	Resistance Value (mΩ)	L	W	t	a	b	c
PMR100	6432 (2512)	0.5	6.40±0.25	3.2±0.25	0.52±0.15	0.50±0.25	2.40±0.25	2.65±0.25
		1	6.40±0.25	3.2±0.25	0.44±0.15	0.50±0.25	2.30±0.25	2.90±0.25
		1.5	6.40±0.25	3.2±0.25	0.44±0.15	0.50±0.25	1.65±0.25	2.65±0.25

●PMR100



■品名构成说明

型号

阻值容差

F	±1%

特殊品名代码

V	0.5mΩ to 1.5mΩ

公称阻值

Resistance code, 4 digits.

Tolerance	Resistance code
F :	4 digits

Resistance Value (Ω)	Tolerance
	F
0.5mΩ	0L50
1mΩ	1L00
1.5mΩ	1L50

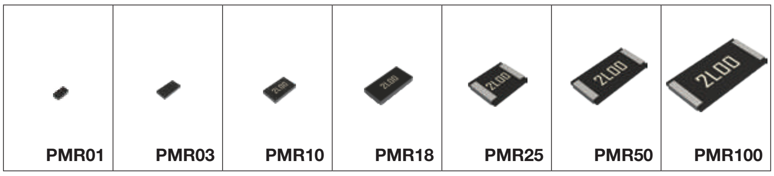
包装规格代码

Part No.	Code	Tolerance	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		F (±1%)			
PMR100	HZP7	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	2,000

卷轴(ϕ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

电流检测用
金属板分流电阻器 超低阻值型：PMR系列

- 采用无微调结构，避免热量集中，减少表面温度上升
- 阻体采用特殊合金，实现优异的温度特性
- 电流检测用贴片电阻器:支持1mΩ以上



提高额定功率的PMR系列

Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Value (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
PMR10	2012 (0805)	1	—	130	F (±1%) J (±5%)	±100	2	−65 to +155	YES
PMR18	3216 (1206)	1.5	—	130	F (±1%) J (±5%)	±100	1, 2		YES
PMR25	3225 (1210)	2	—	130	F (±1%) J (±5%)	±75	1	−65 to +175	YES
PMR50	5025 (2010)	2	—	130	F (±1%) J (±5%)	±75	1, 2		YES
PMR100	6432 (2512)	3	—	130	F (±1%) J (±5%)	±75 ±150	1, 2		YES

PMR系列

Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Value (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
PMR01	1005 (0402)	0.2	70	—	J (±5%)	0 to 200	10	−55 to +155	YES
PMR03	1608 (0603)	0.25	70	—	F (±1%) J (±5%)	0 to 150	10		YES
PMR10	2012 (0805)	0.5	70	—	F (±1%) J (±5%)	±150	3, 4, 5, 6, 7, 8, 9, 10		YES
PMR18	3216 (1206)	1	70	—	F (±1%) J (±5%)	±100	3, 4, 5, 6, 7, 8, 9, 10		YES
PMR25	3225 (1210)	1	70	—	F (±1%) J (±5%)	±100	2, 3, 4, 5		YES
PMR50	5025 (2010)	1	70	—	F (±1%) J (±5%)	±100	3, 4, 5, 6, 7, 8, 9, 10		YES
PMR100	6432 (2512)	2	70	—	F (±1%) J (±5%)	±100	3, 4, 5, 6, 7, 8, 9, 10		YES

大电流跳线类型

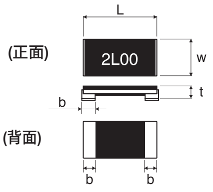
Part No.	Size Code mm (inch)	Rated Current (A)	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
PMR01	1005 (0402)	20.0	0.5mΩ Max	−55 to +155	YES
PMR03	1608 (0603)	22.4			YES
PMR10	2012 (0805)	31.6			YES
PMR18	3216 (1206)	38.7			YES
PMR25	3225 (1210)	44.7			YES
PMR50	5025 (2010)	50.0			YES
PMR100	6432 (2512)	63.2			YES

■尺寸 (单位：mm)

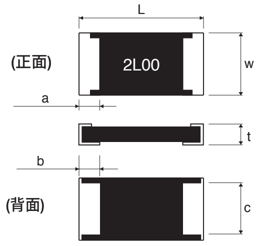
Part No.	Size Code mm (inch)	L	W	t	a	b	c
PMR01	1005 (0402)	1.0±0.05	0.5±0.05	0.25±0.1	—	0.25±0.10	—
PMR03	1608 (0603)	1.6±0.15	0.8±0.15	0.25±0.1	—	0.35±0.15	—
PMR10	2012 (0805)	2.0±0.15	1.2±0.15	0.42 to 0.28*±0.15	—	0.75 to 0.35*±0.25	—
PMR18	3216 (1206)	3.2±0.15	1.6±0.15	0.44 to 0.28*±0.15	—	1.20 to 0.5 *±0.25	—
PMR25	3225 (1210)	3.2±0.2	2.5±0.2	0.52 to 0.32*±0.15	0.5±0.2	1.00 to 0.8 *±0.2	1.95±0.2
PMR50	5025 (2010)	5.0±0.2	2.5±0.2	0.52 to 0.32*±0.15	0.5±0.2	1.85 to 0.9 *±0.2	1.95±0.2
PMR100	6432 (2512)	6.4±0.25	3.2±0.25	0.52 to 0.32*±0.15	0.5±0.25	2.3 to 1.1 *±0.25	2.65±0.25

*根据阻值不同而有所不同。详情请咨询罗姆的销售代表。

●PMR01/03(无标记)
●PMR10/18



●PMR25/50/100



■品名构成说明

P M R 2 5 H Z P J V □ □ □ (□)

型号

阻值容差

F	±1%
J	±5%

J is also used for jumper

特殊品名代码

V	1mΩ to 4mΩ
U	5mΩ to 10mΩ

跳线类型无特殊编号

公称阻值

Resistance code, 3 or 4 digits.
000 denotes jumper type.

Tolerance		Resistance code
F	:	4 digits
J	:	3 digits

Resistance Value (Ω)	Tolerance	
	J	F
Jumper	000	—
1mΩ	1L0	1L00
2mΩ	2L0	2L00
3mΩ	3L0	3L00
4mΩ	4L0	4L00
5mΩ	5L0	5L00
6mΩ	6L0	6L00
7mΩ	7L0	7L00
8mΩ	8L0	8L00
9mΩ	9L0	9L00
10mΩ	10L	10L0

包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
PMR01	ZZP	◎	—	Embossed tape (2mm Pitch)	ϕ180mm (7inch)	10,000
PMR03	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
PMR10	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
PMR18	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
PMR25	HZP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	2,000
PMR50	HZP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	2,000
PMR100	HZP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	2,000

卷轴(ϕ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

电流检测用
大功率金属板分流电阻器 超低阻值型：PMRL系列

- 采用无微调结构和高散热结构，避免热量集中，减少表面温度上升，从而实现大功率
- 阻体采用特殊合金，实现优异的温度特性
- 电流检测用贴片电阻器:支持0.5mΩ以上


PMR10L


PMR18L

PMRL系列

Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Value (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
☆PMR10L	2012 (0805)	2	—	130	F (±1%) J (±5%)	±100	0.5, 1, 2	−65 to +175	YES
		1	—	105	F (±1%) J (±5%)	±100	3, 4, 5, 6, 7, 8, 9, 10	−65 to +155	
☆PMR18L	3216 (1206)	3	—	130	F (±1%) J (±5%)	±75	0.5, 1, 2	−65 to +175	YES
		1.5	—	110	F (±1%) J (±5%)	±50	3, 4, 5, 6, 7, 8, 9, 10		

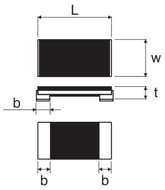
☆：开发中

■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	b
PMR10L	2012 (0805)	2.0±0.15	1.2±0.15	0.42 to 0.28* ±0.15	0.75 to 0.36* ±0.25
PMR18L	3216 (1206)	3.2±0.15	1.6±0.15	0.44 to 0.28* ±0.15	1.20 to 0.5* ±0.25

*根据阻值不同而有所不同。详情请咨询罗姆的销售代表。

●PMR10L/18L(无标记)



■品名构成说明

P M R 1 0 L E Z P J V □ □ □ □

型号

阻值容差

F	±1%
J	±5%

特殊品名代码

V	0.5mΩ to 4mΩ
U	5mΩ to 10mΩ

公称阻值

Resistance code, 3 or 4 digits.

Tolerance		Resistance code
F	:	4 digits
J	:	3 digits

Resistance Value (Ω)	Tolerance	
	J	F
0.5mΩ	0L5	0L50
1mΩ	1L0	1L00
2mΩ	2L0	2L00
3mΩ	3L0	3L00
4mΩ	4L0	4L00
5mΩ	5L0	5L00
6mΩ	6L0	6L00
7mΩ	7L0	7L00
8mΩ	8L0	8L00
9mΩ	9L0	9L00
10mΩ	10L	10L0

包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
PMR10L	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
PMR18L	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000

卷轴(ϕ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

电流检测用
金属板分流电阻器 超低阻值・长边电极型：PML系列

- 采用长边电极结构，提高接合可靠性和散热性
- 采用无微调结构，避免热集中，减少表面温度上升
- 超低阻值范围(0.5mΩ及以上)


PML10


PML18


PML50


PML100

PML系列

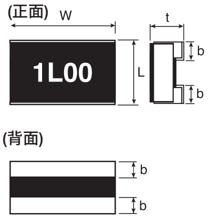
Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Value (mΩ)	Operating Temperature (°C)	Automotive Grade AEC-Q200
PML10	1220 (0508)	0.66 (2/3)	70	G (±2%) J (±5%)	±200	1.0, 1.5, 2.0, 2.5	−55 to +155	YES
PML18	1632 (0612)	1	70	G (±2%) J (±5%)	±150	0.5, 1.0, 1.5, 2.0, 2.5		YES
PML50	2550 (1020)	2	70	J (±5%)	±150	0.5		YES
					±100	2.2		
PML100	3264 (1225)	2	70	J (±5%)	±150	0.5		YES
		2	70		±100	1.0, 1.5, 2.0, 2.2		
		3	25					

■尺寸 (单位：mm)

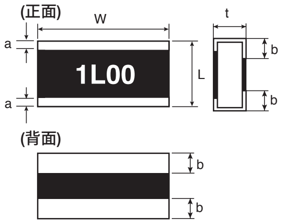
Part No.	Size Code mm (inch)	L	W	t	a	b
PML10	1220 (0508)	1.2±0.15	2.0±0.15	0.42 to 0.28* ±0.15	–	0.45 to 0.35* ±0.25
PML18	1632 (0612)	1.6±0.15	3.2±0.15	0.42 to 0.28* ±0.15	–	0.55 to 0.35* ±0.25
PML50	2550 (1020)	2.6±0.20	5.0±0.2	0.5 to 0.36* ±0.15	0.4±0.2	0.75 to 0.7* ±0.2
PML100	3264 (1225)	3.2±0.25	6.4±0.25	0.5 to 0.36* ±0.15	0.45±0.25	0.9 to 0.7* ±0.25

*根据阻值不同而有所不同。详情请咨询罗姆的销售代表。

●PML10/18



●PML50/100



■品名构成说明

P M L 5 0 H Z P J V □ □ □ □

- 型号：P M L 5 0
- 包装规格代码：H Z P
- 阻值容差：J
- 特殊品名代码：V
- 公称阻值：□ □ □ □

阻值容差

G	±2%
J	±5%

公称阻值

Resistance code, 3 or 4 digits.

Tolerance		Resistance code
G	:	4 digits
J	:	3 digits

Resistance Value (Ω)	Tolerance	
	J	G
0.5mΩ	0L5	0L50
1mΩ	1L0	1L00
1.5mΩ	1L5	1L50
2mΩ	2L0	2L00
2.2mΩ	2L2	–
2.5mΩ	2L5	2L50

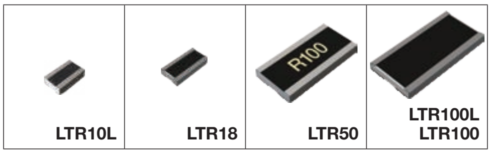
包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	G (±2%)			
PML10	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
PML18	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
PML50	HZP	◎	–	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	2,000
PML100	HZP	◎	–	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	2,000

卷轴(ϕ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

电流检测用
大功率厚膜分流电阻器 长边电极型：LTR/LTRL系列

- 通过采用长边电极结构，大幅提高对于温度变化的连接可靠性
- 额定功率大，可与小尺寸产品进行替换
- 电流检测用贴片电阻器(10mΩ及以上)



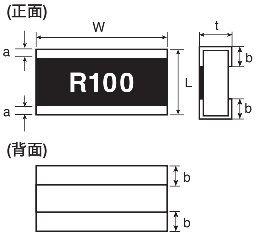
LTR/LTRL系列

Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
LTR10L	1220 (0508)	1	70	125	D (±0.5%)	0 to 150 0 to 100	100mΩ to 180mΩ (E24 series) 200mΩ to 910mΩ (E24 series)	−55 to +155	YES
					F (±1%) J (±5%)	0 to 150 0 to 100	33mΩ to 180mΩ (E24 series) 200mΩ to 910mΩ (E24 series)		
LTR18	1632 (0612)	1.5	70	95	F (±1%) J (±5%)	0 to 300 0 to 200 0 to 150 ±100	10mΩ to 18mΩ (E24 series) 20mΩ to 47mΩ (E24 series) 51mΩ to 470mΩ (E24 series) 510mΩ to 1Ω (E24 series)		YES
LTR50	2550 (1020)	New 3	70	110	F (±1%) J (±5%)	0 to 300 0 to 200 0 to 150 ±100	10mΩ to 18mΩ (E24 series) 20mΩ to 47mΩ (E24 series) 51mΩ to 91mΩ (E24 series) 100mΩ to 910mΩ (E24 series)		YES
LTR100L	3264 (1225)	4	70	110	F (±1%) J (±5%)	0 to 300 0 to 200 0 to 150	10mΩ to 18mΩ (E24 series) 20mΩ to 47mΩ (E24 series) 51mΩ to 91mΩ (E24 series)	−65 to +155	YES
LTR100		New 3	70	115	F (±1%)	0 to 150 0 to 100	100mΩ to 180mΩ (E24 series) 200mΩ to 910mΩ (E24 series)	−55 to +155	YES
					J (±5%)	±200	100mΩ to 910mΩ (E24 series)		

■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
LTR10L	1220 (0508)	1.25±0.15	2.0±0.15	0.55±0.1	0.28±0.15	0.35±0.2
LTR18	1632 (0612)	1.6±0.1	3.2±0.1	0.58±0.1	0.5±0.2	0.5±0.2
LTR50	2550 (1020)	2.5±0.15	5.0±0.15	0.58±0.15	0.38±0.2	0.9±0.2
LTR100L	3264 (1225)	3.1±0.15	6.4±0.15	0.58±0.15	0.5±0.25	1.0±0.25
LTR100		3.2±0.15	6.4±0.15	0.55±0.15	0.4±0.25	1.13±0.25

●LTR10L/LTR18/LTR100L/LTR100(无标记)
●LTR50(标记)



■品名构成说明

L T R 1 0 L E Z P F L □ □ □ (□)

型号

阻值容差

D	±0.5%
F	±1%
J	±5%

特殊品名代码

U	10mΩ
S	11mΩ to 91mΩ
L	100mΩ to 1Ω

公称阻值

Resistance code, 3 or 4 digits.

Tolerance + Special part code		Resistance code
DL, FU, FS, FL, JS	:	4 digits
JU, JL	:	3 digits

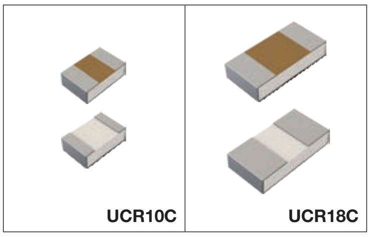
包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
LTR10L*	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
LTR18	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
LTR50	UZP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	5,000
LTR100L	JZP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000
LTR100	JZP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000

◎：标准产品
*LTR10L 100mΩ to 910mΩ对应D级(±0.5%)

电流检测用
大功率厚膜分流电阻器 背面贴装型：UCRC系列

- 2012规格厚膜贴片电阻器，实现1W额定功率
- 厚膜贴片低电阻，实现低TCR(100ppm/℃以下)
- 电流检测用贴片电阻器:支持10mΩ以上



UCRC系列

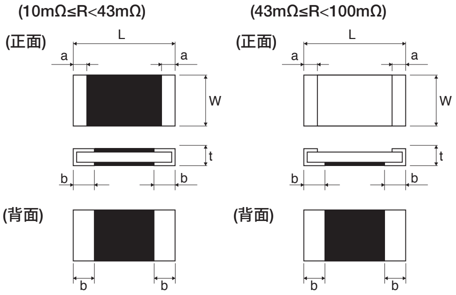
Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
☆UCR10C	2012 (0805)	1	70	125	F (±1%) J (±5%)	±75	10mΩ to 12mΩ (E24 series)	−55 to +155	YES
		1.25				±60	13mΩ to 100mΩ (E24 series)		
☆UCR18C	3216 (1206)	1.75	70	125	F (±1%) J (±5%)	±75	10mΩ to 100mΩ (E24 series)		YES

☆：开发中

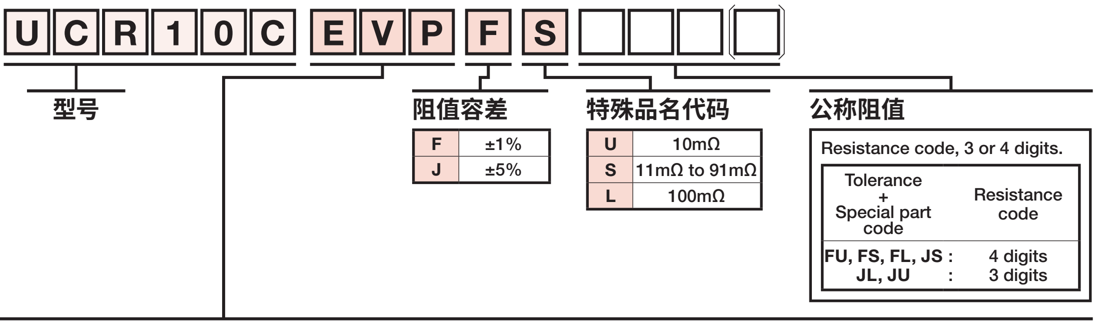
■尺寸 (单位：mm)

Part No.	Resistance Range (mΩ)	Size Code mm (inch)	L	W	t	a	b
UCR10C	10 to 39	2012 (0805)	2.05±0.20	1.30±0.2	0.65±0.10	0.60±0.20	0.60±0.20
	43 to 100					0.40±0.20	0.75±0.20
UCR18C	10 to 39	3216 (1206)	3.2±0.15	1.6±0.2	0.65±0.10	0.8±0.20	1.1±0.20
	43 to 100					1.1±0.20	1.2±0.20

●UCR10C/18C(无标记)



■品名构成说明



阻值容差

F	±1%
J	±5%

特殊品名代码

U	10mΩ
S	11mΩ to 91mΩ
L	100mΩ

公称阻值

Resistance code, 3 or 4 digits.

Tolerance + Special part code	Resistance code
FU, FS, FL, JS :	4 digits
JL, JU :	3 digits

包装规格代码

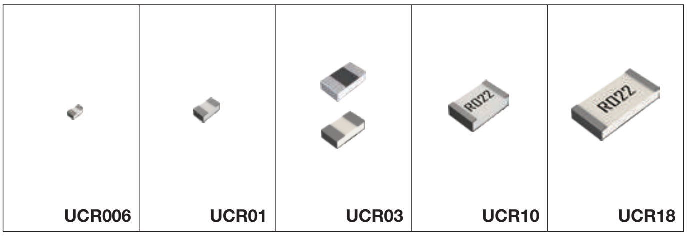
Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)	Remarks
		J (±5%)	F (±1%)				
UCR10C	EWP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000	10mΩ to 39mΩ
	EVP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000	43mΩ to 100mΩ
UCR18C	EWP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000	10mΩ to 39mΩ
	EVP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000	43mΩ to 100mΩ

卷轴(ϕ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

电流检测用

厚膜分流电阻器 背面贴装型：UCR系列

- 采用背面贴装结构，减少贴装时的阻值偏差
- 采用自有的散热设计，实现出色的额定功率
- 电流检测用贴片电阻器(11mΩ及以上)



UCR系列

Part No.	Size Code mm (inch)	Rated Power (W) (70°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
UCR006	0603 (0201)	0.1	F (±1%) J (±5%)	0 to 300	100mΩ to 910mΩ (E24 series)	−55 to +155	YES
UCR01	1005 (0402)	0.125	F (±1%) J (±5%)	0 to 300 0 to 250 0 to 200	68mΩ to 91mΩ (E24 series) 100mΩ to 200mΩ (E24 series) 220mΩ to 910mΩ (E24 series)		YES
UCR03	1608 (0603)	0.25	F (±1%) J (±5%)	0 to 250 0 to 200 0 to 150	20mΩ to 47mΩ (E24 series) 50mΩ to 91mΩ (E24 series) 100mΩ to 200mΩ (E24 series)		YES*
		0.2	F (±1%) J (±5%)	0 to 150	220mΩ to 910mΩ (E24 series)		
UCR10	2012 (0805)	0.33 (1/3)	F (±1%) J (±5%)	250±200 0 to 250 0 to 150	11mΩ to 18mΩ (E24 series) 20mΩ to 47mΩ (E24 series) 51mΩ to 100mΩ (E24 series)		YES
UCR18	3216 (1206)	1	F (±1%) J (±5%)	0 to 350 0 to 200	11mΩ to 18mΩ (E24 series) 20mΩ to 39mΩ (E24 series)		YES
		0.5	F (±1%) J (±5%)	0 to 150	43mΩ to 100mΩ (E24 series)		

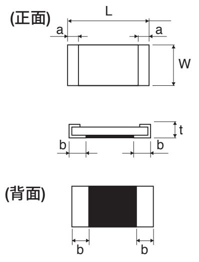
*仅限100mΩ及以上

■尺寸 (单位：mm)

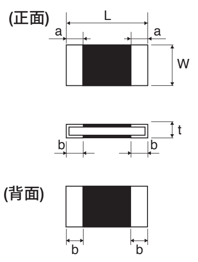
Part No.	Size Code mm (inch)	L	W	t	a	b
UCR006	0603 (0201)	0.62±0.05	0.32±0.05	0.24±0.05	0.18±0.1	0.22±0.1
UCR01	1005 (0402)	1.0±0.1	0.55±0.1	0.37±0.05	0.28±0.1	0.34±0.1
UCR03	1608 (0603)	1.6±0.1	0.87±0.1	0.5±0.1	0.45±0.2	0.45±0.2
UCR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.24±0.2	0.5±0.2
UCR18	3216 (1206)	3.2±0.15	1.6±0.15	0.55±0.1	0.3±0.2	0.9±0.25

●UCR006/01
(无标记)

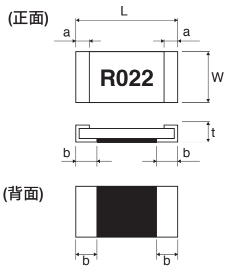
●UCR03
(无标记)
(50mΩ≤R≤910mΩ)



●UCR03
(无标记)
(20mΩ≤R<50mΩ)



●UCR10/18



■品名构成说明

型号

阻值容差

F	±1%
J	±5%

特殊品名代码

S	11mΩ to 91mΩ
L	100mΩ to 910mΩ

公称阻值

Resistance code, 3 or 4 digits.

Tolerance +Special P/N		Resistance code
FS, FL, JS	:	4 digits
JL	:	3 digits

包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)	Remarks
		J (±5%)	F (±1%)				
UCR006	YVP	◎	◎	Paper tape (2mm Pitch)	ϕ180mm (7inch)	15,000	–
UCR01	MVP	◎	◎	Paper tape (2mm Pitch)	ϕ180mm (7inch)	10,000	–
UCR03	EWP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000	20mΩ to 47mΩ
	EVP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000	51mΩ to 910mΩ
UCR10	EVH	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000	–
UCR18	EVH	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000	–

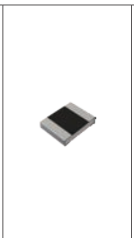
卷轴(ϕ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

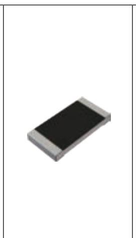
电流检测用
通用贴片电阻器 低电阻值・大功率型：MCRL系列

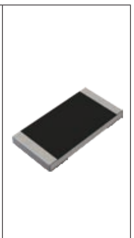
- 通过电阻元件的重新布线，实现了与大一个尺寸产品同等的额定功率
- 低阻值 (47mΩ及以上)，厚电阻体
- 采用了金属釉阻体的高可靠性贴片电阻器


MCR10L


MCR18L


MCR25L


MCR50L


MCR100L

MCRL系列

Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
MCR10L	2012 (0805)	0.5	70	–	F (±1%) J (±5%)	0 to 250	47mΩ to 110mΩ (E24 series)	–55 to +155	YES
						0 to 150	120mΩ to 910mΩ (E24 series)		
MCR18L	3216 (1206)	0.75	70	–	F (±1%) J (±5%)	0 to 250	47mΩ to 91mΩ (E24 series)		YES
						0 to 150	100mΩ to 910mΩ (E24 series)		
☆MCR25L	3225 (1210)	1.25	70	125	D (±0.5%) F (±1%) J (±5%)	0 to 150	47mΩ to 91mΩ (E24 series)		YES
						0 to 125	100mΩ to 200mΩ (E24 series)		
						0 to 100	220mΩ to 470mΩ (E24 series)		
						0 to 75	510mΩ to 910mΩ (E24 series)		
☆MCR50L	5025 (2010)	2	70	125	D (±0.5%) F (±1%) J (±5%)	0 to 250	47mΩ to 130mΩ (E24 series)		YES
						0 to 200	150mΩ to 270mΩ (E24 series)		
						0 to 150	300mΩ to 910mΩ (E24 series)		
☆MCR100L	6432 (2512)	3	70	125	F (±1%) J (±5%)	0 to 300	47mΩ to 91mΩ (E24 series)		YES
						0 to 150	100mΩ to 910mΩ (E24 series)		

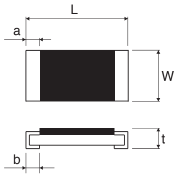
☆：开发中

■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
MCR10L	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.60±0.20*1 0.45±0.20*2	0.40±0.20
MCR18L	3216 (1206)	3.2+0.15 −0.20	1.6±0.15	0.55±0.1	0.90±0.25*1 0.75±0.25*2	0.50±0.25
MCR25L	3225 (1210)	3.2+0.15 −0.20	2.5±0.15	0.6±0.10	0.7±0.15	0.55±0.15
MCR50L	5025 (2010)	5.0±0.15	2.5±0.15	0.6±0.10	0.55±0.15	0.7±0.15
MCR100L	6432 (2512)	6.4±0.15	3.2±0.15	0.6±0.15	0.6±0.25	1.45±0.25

*1 电阻值范围：47mΩ～110mΩ
*2 电阻值范围：120mΩ～910mΩ

●MCR10L/18L/25L/50L/100L(无标记)



■品名构成说明

M C R 1 0 L E Q P J L □ □ □ (□)

型号

阻值容差

D	±0.5%
F	±1%
J	±5%

特殊品名代码

S	47mΩ to 91mΩ
L	100mΩ to 910mΩ

公称阻值

Resistance code, 3 or 4 digits.

Tolerance +Special P/N	Resistance code
DS, DL, FS, FL, JS :	4 digits
JL :	3 digits

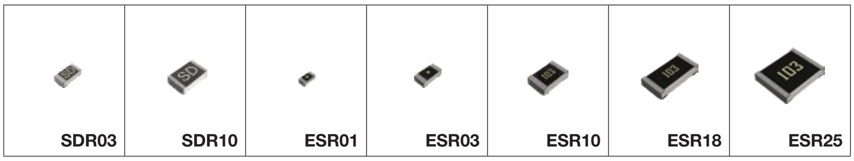
包装规格代码

Part No.	Code	Tolerance			Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J(±5%)	F(±1%)	D(±0.5%)			
MCR10L	EQP	◎	◎	–	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MCR18L	EQP	◎	◎	–	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MCR25L	JQP	◎	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000
MCR50L	JQP	◎	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000
MCR100L	JQP	◎	◎	–	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000

卷轴(ϕ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

高可靠性
高抗浪涌贴片电阻器：SDR系列
抗浪涌贴片电阻器：ESR系列

- 采用自有的电阻元件布线、微调技术，大幅提升抗浪涌特性
- 额定功率比通用系列产品大，有助于设备省空间设计



SDR系列

Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
SDR03	1608 (0603)	New 0.4	70	130	150	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)	−55 to +155	YES
						F (±1%)	±200	1Ω to 9.76Ω (E24, E96 series)		
							±100	10Ω to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 10MΩ (E24 series)		
SDR10	2012 (0805)	New 0.66 (2/3)	70	125	400	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		YES
						F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 10MΩ (E24 series)		

ESR系列

Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
ESR01	1005 (0402)	0.2	70	–	50	F (±1%)	±100	10Ω to 976kΩ (E24, E96 series)	−55 to +155	YES
								1MΩ to 2.2MΩ (E24 series)		
						J (±5%)	+500/−200	1Ω to 9.1Ω (E24 series)		
							±200	10Ω to 10MΩ (E24 series)		
ESR03	1608 (0603)	New 0.33 (1/3)	70	130	150	D (±0.5%)	±100	10Ω to 976Ω (E24, E96 series)		YES
						F (±1%)	±200	1Ω to 9.76Ω (E24, E96 series)		
							±100	10Ω to 976Ω (E24, E96 series)		
						J (±5%)	±200	10Ω to 910Ω (E24 series)		
		0.25		–		D (±0.5%)	±100	1kΩ to 1MΩ (E24, E96 series)		
						F (±1%)	±100	1kΩ to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1kΩ to 10MΩ (E24 series)		
ESR10	2012 (0805)	New 0.5	70	115	150	D (±0.5%)	±100	10Ω to 976Ω (E24, E96 series)		YES
						F (±1%)	±100	1Ω to 976Ω (E24, E96 series)		
						J (±5%)	±200	1Ω to 910Ω (E24 series)		
		0.4		125		D (±0.5%)	±100	1kΩ to 1MΩ (E24, E96 series)		
						F (±1%)	±100	1kΩ to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1kΩ to 10MΩ (E24 series)		
ESR18	3216 (1206)	New 0.75	70	105	200	D (±0.5%)	±100	10Ω to 976Ω (E24, E96 series)		YES
						F (±1%)	±100	1Ω to 976Ω (E24, E96 series)		
						J (±5%)	±200	1Ω to 910Ω (E24 series)		
		0.5		125		D (±0.5%)	±100	1kΩ to 1MΩ (E24, E96 series)		
						F (±1%)	±100	1kΩ to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1kΩ to 10MΩ (E24 series)		
ESR25	3225 (1210)	New 1	70	95	200	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		YES
						F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 10MΩ (E24 series)		

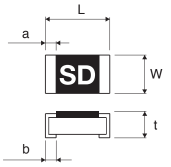
*E24：标准品/E96：订购生产品

高可靠性
高抗浪涌贴片电阻器：SDR系列
抗浪涌贴片电阻器：ESR系列

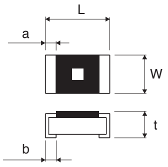
■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
SDR03	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.25±0.1	0.25±0.1
SDR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.25±0.1	0.4±0.2
ESR01	1005 (0402)	1.0±0.05	0.5±0.05	0.35±0.05	0.2±0.1	$0.25^{+0.05}_{-0.1}$
ESR03	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2	0.3±0.2
ESR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.3±0.2	0.4±0.2
ESR18	3216 (1206)	3.2±0.15	1.6±0.15	0.55±0.1	0.3±0.25	0.5±0.25
ESR25	3225 (1210)	3.2±0.15	2.5±0.15	0.55±0.1	0.3±0.25	0.5±0.25

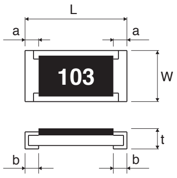
●SDR03/10
(有"SD"标记)



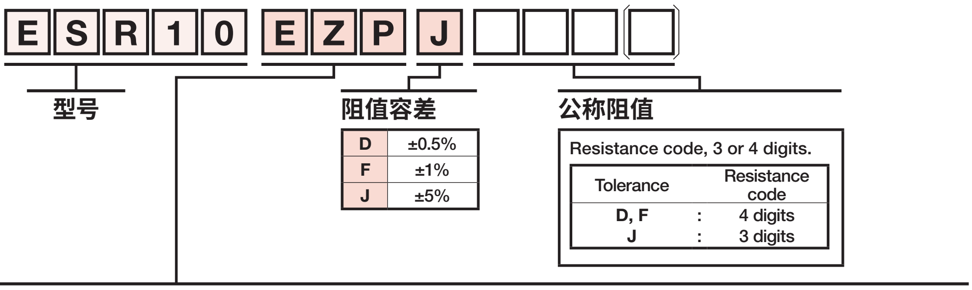
●ESR01/03
(有"■"标记)



●ESR10/18/25



■品名构成说明



型号

阻值容差

D	±0.5%
F	±1%
J	±5%

公称阻值

Resistance code, 3 or 4 digits.

Tolerance		Resistance code
D, F	:	4 digits
J	:	3 digits

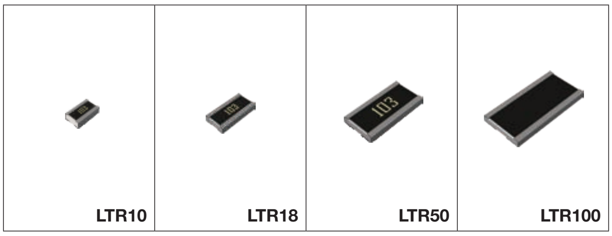
包装规格代码

Part No.	Code	Tolerance			Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)	D (±0.5%)			
SDR03	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
SDR10	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
ESR01	MZP	◎	◎	–	Paper tape (2mm Pitch)	ϕ180mm (7inch)	10,000
ESR03	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
ESR10	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
ESR18	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
ESR25	JZP	◎	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000

卷轴(ϕ180mm)：遵循JEITA规格"EIAJ ET-7200B"
◎：标准产品

高可靠性
大功率&抗电涌贴片电阻器 长边电极型：LTR系列

- 通过采用长边电极结构，大幅提升对于温度变化的连接可靠性
- 额定功率比通用系列产品大，有助于设备省空间设计
- 通过不使电流集中的电阻元件设计，大幅提升抗电涌特性



LTR系列

Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
LTR10	1220 (0508)	1	70	125	150	D (±0.5%)	±100	10Ω to 976Ω (E24, E96 series)	−55 to +155	YES
						F (±1%)	±100	1Ω to 976Ω (E24, E96 series)		
						J (±5%)	±200	1Ω to 910Ω (E24 series)		
		0.25	70	95		D (±0.5%)	±100	1kΩ to 1MΩ (E24, E96 series)		
						F (±1%)	±100	1kΩ to 1MΩ (E24, E96 series)		
						J (±5%)	±200	1kΩ to 1MΩ (E24 series)		
LTR18	1632 (0612)	1.5	70	95	200	D (±0.5%)	±100	10Ω to 976Ω (E24, E96 series)		YES
						F (±1%)	±100	1Ω to 976Ω (E24, E96 series)		
						J (±5%)	±200	1Ω to 910Ω (E24 series)		
		0.75	70	125		D (±0.5%)	±100	1kΩ to 1MΩ (E24, E96 series)		
						F (±1%)	±100	1kΩ to 1MΩ (E24, E96 series)		
						J (±5%)	±200	1kΩ to 1MΩ (E24 series)		
LTR50	2550 (1020)	1	70	—	200	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		YES
						F (±1%)	±100	1Ω to 1MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 1MΩ (E24 series)		
		☆2	70	95		D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		
						F (±1%)	±100	1Ω to 1MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 1MΩ (E24 series)		
LTR100	3264 (1225)	New 3	70	115	200	D (±0.5%)	±100	10Ω to 1MΩ (E24, E96 series)		YES
						F (±1%)	±100	1Ω to 1MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 1MΩ (E24 series)		

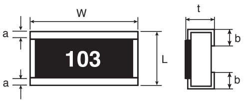
*E24：标准品/E96：订购生产品

☆：开发中

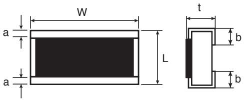
■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
LTR10	1220 (0508)	1.2±0.1	2.0±0.1	0.55±0.1	0.25±0.1	0.35±0.2
LTR18	1632 (0612)	1.6±0.15	3.2±0.15	0.55±0.1	0.3±0.2	0.5±0.2
LTR50	2550 (1020)	2.5±0.15	5.0±0.15	0.55±0.1	0.38±0.2	0.9±0.2
LTR100	3264 (1225)	3.2±0.15	6.4±0.15	0.55±0.15	0.4±0.25	1.13±0.25

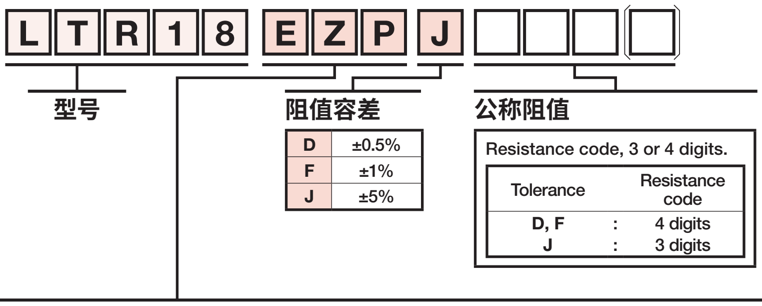
●LTR10/18/50



●LTR100(无标记)



■品名构成说明



型号

阻值容差

D	±0.5%
F	±1%
J	±5%

公称阻值

Resistance code, 3 or 4 digits.

Tolerance		Resistance code
D, F	:	4 digits
J	:	3 digits

包装规格代码

Part No.	Code	Tolerance			Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)	D (±0.5%)			
LTR10	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
LTR18	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
LTR50	UZP	◎	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	5,000
LTR100	JZP	◎	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000

卷轴(ϕ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

高可靠性
高耐压贴片电阻器：KTR系列

- 元件最高电压是通用系列产品的2倍以上
- 适用于高电压负载的分压电路


KTR03

KTR10

KTR18

KTR25

KTR系列

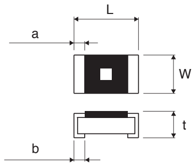
Part No.	Size Code mm (inch)	Rated Power (W) (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
KTR03	1608 (0603)	0.1	350	F (±1%)	±200	1Ω to 9.76Ω (E24, E96 series)	−55 to +155	YES
					±100	10Ω to 10MΩ (E24, E96 series)		
				J (±5%)	±200	1Ω to 10MΩ (E24 series)		
KTR10	2012 (0805)	0.125	400	F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		YES
				J (±5%)	±200	1Ω to 30MΩ (E24 series)		
KTR18	3216 (1206)	0.25	500	F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		YES
				J (±5%)	±200	1Ω to 10MΩ (E24 series)		
KTR25	3225 (1210)	0.33 (1/3)	600	F (±1%)	±100	1Ω to 10MΩ (E24, E96 series)		YES
				J (±5%)	±200	1Ω to 10MΩ (E24 series)		

*E24：标准品/E96：订购生产品

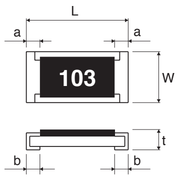
■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
KTR03	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2	0.3±0.2
KTR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.3±0.2	0.4±0.2
KTR18	3216 (1206)	3.2±0.15	1.6±0.15	0.55±0.1	0.3±0.25	0.5±0.25
KTR25	3225 (1210)	3.2±0.15	2.5±0.15	0.55±0.1	0.3±0.25	0.5±0.25

●KTR03
(有“■”标记)



●KTR10/18/25



■品名构成说明

K T R 1 0 E Z P J □ □ □ □

型号

阻值容差

F	±1%
J	±5%

公称阻值

Resistance code, 3 or 4 digits.

Tolerance		Resistance code
F	:	4 digits
J	:	3 digits

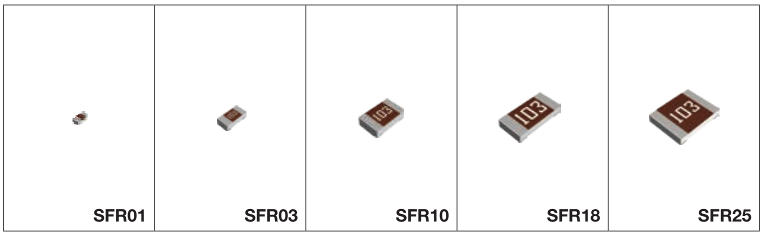
包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
KTR03	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
KTR10	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
KTR18	EZP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
KTR25	JZP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000

卷轴(ϕ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

高可靠性
抗硫化贴片电阻器：SFR系列

- 采用罗姆自有的结构，大幅提升抗硫化性能



SFR系列

Part No.	Size Code mm (inch)	Rated Power (W) (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
SFR01	1005 (0402)	0.063 (1/16)	50	F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)	−55 to +155	YES
				J (±5%)	+500/−250 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)		
SFR03	1608 (0603)	0.1	50	F (±1%)	±100	10Ω to 10MΩ (E24, E96 series)		YES
				J (±5%)	±400 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)		
SFR10	2012 (0805)	0.125	150	F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)		YES
				J (±5%)	±400 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)		
SFR18	3216 (1206)	0.25	200	F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)		YES
				J (±5%)	±400 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 10MΩ (E24 series)		
SFR25	3225 (1210)	0.5	200	F (±1%)	±100	10Ω to 1MΩ (E24, E96 series)		YES
				J (±5%)	±200	1Ω to 1MΩ (E24 series)		

*E24：标准品/E96：订购生产品

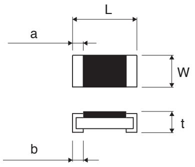
跳线类型

Part No.	Size Code mm (inch)	Rated Current (A)	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
SFR01	1005 (0402)	1	50mΩ Max	−55 to +155	YES
SFR03	1608 (0603)	1			YES
SFR10	2012 (0805)	2			YES
SFR18	3216 (1206)	2			YES
SFR25	3225 (1210)	2			YES

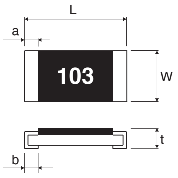
■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
SFR01	1005 (0402)	1.0±0.05	0.5±0.05	0.35±0.05	0.33±0.08	$0.25^{+0.05}_{-0.10}$
SFR03	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.4±0.2	0.3±0.2
SFR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.4±0.2	0.4±0.2
SFR18	3216 (1206)	$3.2^{+0.15}_{-0.20}$	1.6±0.15	0.55±0.1	0.55±0.25	0.5±0.25
SFR25	3225 (1210)	$3.2^{+0.15}_{-0.20}$	2.5±0.15	0.55±0.1	0.55±0.25	0.5±0.25

●SFR01(无标记)



●SFR03/10/18/25



■品名构成说明

S F R 0 3 E Z P J □ □ □ （□）

型号

阻值容差

F	±1%
J	±5%

J is also used for jumper

公称阻值

Resistance code, 3 or 4 digits.
000 denotes jumper type.

Tolerance		Resistance code
F	:	4 digits
J	:	3 digits

包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
SFR01	MZP	◎	◎	Paper tape (2mm Pitch)	φ180mm (7inch)	10,000
SFR03	EZP	◎	◎	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
SFR10	EZP	◎	◎	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
SFR18	EZP	◎	◎	Paper tape (4mm Pitch)	φ180mm (7inch)	5,000
SFR25	JZP	◎	◎	Embossed tape (4mm Pitch)	φ180mm (7inch)	4,000

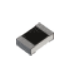
卷轴(φ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

通用贴片电阻器 大功率型：MCRS系列

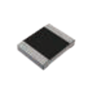
- 通过电阻元件的重新布线，相比以往MCR系列，实现了与大一个尺寸产品同等的额定功率保证。
- 实现了电路的省空间化
(1608→1005尺寸的替换减少了约60%的面积)


MCR01S


MCR03S


MCR10S


MCR18S


MCR25S


MCR50S


MCR100S

MCRS系列

Part No.	Size Code mm (inch)	Rated Power (W)	Rated Ambient Temperature (°C)	Rated Terminal Temperature (°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
MCR01S	1005 (0402)	0.1	70	–	75	F (±1%)	±100	10Ω to 10MΩ (E24, E96 series)	–55 to +155	YES
						J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
							±200	10Ω to 10MΩ (E24 series)		
MCR03S	1608 (0603)	0.125	70	–	150	F (±1%)	±100	10Ω to 10MΩ (E24, E96 series)		YES
						J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
							±200	10Ω to 10MΩ (E24 series)		
MCR10S	2012 (0805)	0.25	70	–	200	F (±1%)	±250	1Ω to 9.1Ω (E24 series)		YES
							±100	10Ω to 2.2MΩ (E24, E96 series)		
						J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
							±200	10Ω to 10MΩ (E24 series)		
MCR18S	3216 (1206)	0.4	70	–	200	F (±1%)	±250	1Ω to 9.1Ω (E24 series)		YES
							±100	10Ω to 2.2MΩ (E24, E96 series)		
						J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
							±200	10Ω to 10MΩ (E24 series)		
☆**MCR25S**	3225 (1210)	0.5	70	–	200	F (±1%)	±200	1Ω to 9.76Ω (E24, E96 series)		YES
							±100	10Ω to 1MΩ (E24, E96 series)		
						J (±5%)	±200	1Ω to 1MΩ (E24 series)		
New **MCR50S**	5025 (2010)	1.5	70	105	250	F (±1%)	±200	1Ω to 9.1Ω (E24 series)		YES
							+100/–150[*1] ±100[*2]	10Ω to 26.7Ω (E24, E96 series)		
							±100	27Ω to 2.2MΩ (E24, E96 series)		
						J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
							±200	10Ω to 4.7MΩ (E24 series)		
New **MCR100S**	6432 (2512)	2	70	105	250	F (±1%)	±200	1Ω to 9.1Ω (E24 series)		YES
							+100/–150[*1] ±100[*2]	10Ω to 26.7Ω (E24, E96 series)		
							±100	27Ω to 2.2MΩ (E24, E96 series)		
						J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
							±200	10Ω to 4.7MΩ (E24 series)		

[*1] (+25° C to –55° C)
[*2] (+25° C to +125° C)

☆：开发中

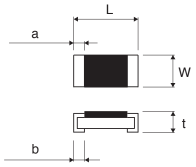
跳线类型

Part No.	Size Code mm (inch)	Rated Current (A)	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
MCR01S	1005 (0402)	1.5	50mΩ Max	–55 to +155	YES
MCR03S	1608 (0603)	2			YES
MCR10S	2012 (0805)	2.5			YES
MCR18S	3216 (1206)	2.5			YES
MCR25S	3225 (1210)	4			YES
MCR50S	5025 (2010)	4			YES
MCR100S	6432 (2512)	4			YES

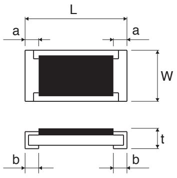
■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
MCR01S	1005 (0402)	1.0±0.05	0.50±0.05	0.35±0.05	0.2±0.1	$0.25^{+0.05}_{-0.1}$
MCR03S	1608 (0603)	1.6±0.1	0.80±0.1	0.45±0.1	0.3±0.2	0.3±0.2
MCR10S	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.4±0.2	0.4±0.2
MCR18S	3216 (1206)	$3.2^{+0.15}_{-0.2}$	1.60±0.15	0.55±0.1	0.5±0.25	0.5±0.25
MCR25S	3225 (1210)	$3.2^{+0.15}_{-0.20}$	2.5±0.15	0.55±0.1	0.55±0.25	0.5±0.25
MCR50S	5025 (2010)	5.0±0.15	2.50±0.15	0.55±0.15	0.6±0.25	0.6±0.25
MCR100S	6432 (2512)	6.4±0.15	3.15±0.15	0.55±0.15	0.6±0.25	1.0±0.25

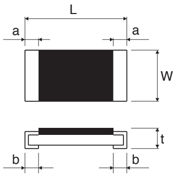
●MCR01S/03S (无标记)



●MCR10S/18S/50S/100S (无标记)



●MCR25S(无标记)



■品名构成说明

M C R 0 3 S　E Q P　F　L　□ □ □ (□)

型号

阻值容差

F	±1%
J	±5%

J is also used for jumper

特殊品名代码

L (1Ω to 9.1Ω)*
* :10S/18S F Class
50S/100S F/J Class

公称阻值

Resistance code, 3 or 4 digits.
000 denotes jumper type.

Tolerance		Resistance code
F	:	4 digits
J	:	3 digits

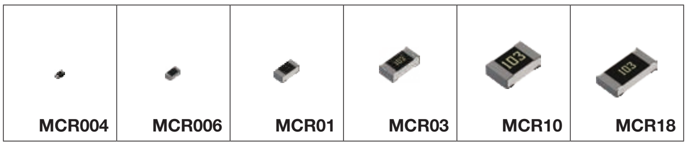
包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J(±5%)	F(±1%)			
MCR01S	MQP	◎	◎	Paper tape (2mm Pitch)	ϕ180mm (7inch)	10,000
MCR03S	EQP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MCR10S	EQP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MCR18S	EQP	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MCR25S	JQP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000
MCR50S	JQP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000
MCR100S	JQP	◎	◎	Embossed tape (4mm Pitch)	ϕ180mm (7inch)	4,000

卷轴(ϕ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

通用贴片电阻器：MCR系列

- 提供从0402到3216尺寸的6种封装规格
- 可穿戴式、便携式设备到车载、工业等设备均有广泛采用实绩



MCR系列

Part No.	Size Code mm (inch)	Rated Power (W) (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
MCR004	0402 (01005)	0.031 (1/32)	15	F (±1%)	±300	10Ω to 97.6Ω (E24, E96 series)	−55 to +125	–
					±250	100Ω to 1MΩ (E24, E96 series)		
				J (±5%)	+600/−100	1Ω to 9.1Ω (E24 series)		
					±300	10Ω to 91Ω (E24 series)		
					±250	100Ω to 1MΩ (E24 series)		
MCR006	0603 (0201)	0.05	25	D (±0.5%)	±200	10Ω to 976Ω (E24, E96 series)		YES
					±100	1kΩ to 1MΩ (E24, E96 series)		
				F (±1%)	+600/−200	1Ω to 9.1Ω (E24 series)		
					±200	10Ω to 10MΩ (E24, E96 series)		
				J (±5%)	+600/−200	1Ω to 9.1Ω (E24 series)		
					±200	10Ω to 10MΩ (E24 series)		
MCR01	1005 (0402)	0.063 (1/16)	50	D (±0.5%)	±100	10Ω to 97.6Ω (E24, E96 series)	−55 to +155	YES
					±50	100Ω to 1MΩ (E24, E96 series)		
				F (±1%)	±400	1Ω to 9.1Ω (E24 series)		
					±100	10Ω to 2.2MΩ (E24, E96 series)		
				J (±5%)	+500/−250	1Ω to 9.1Ω (E24 series)		
					±200	10Ω to 10MΩ (E24 series)		
MCR03	1608 (0603)	0.1	50	D (±0.5%)	±100	10Ω to 97.6Ω (E24, E96 series)		YES
					±50	100Ω to 1MΩ (E24, E96 series)		
				F (±1%)	±400	1Ω to 9.1Ω (E24 series)		
					±100	10Ω to 10MΩ (E24, E96 series)		
				J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
					±200	10Ω to 10MΩ (E24 series)		
MCR10	2012 (0805)	0.1	150	D (±0.5%)	±100	10Ω to 97.6Ω (E24, E96 series)		YES
					±50	100Ω to 1MΩ (E24, E96 series)		
		0.125		F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)		
				J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
					±200	10Ω to 10MΩ (E24 series)		
MCR18	3216 (1206)	0.125	200	D (±0.5%)	±100	10Ω to 97.6Ω (E24, E96 series)		YES
					±50	100Ω to 1MΩ (E24, E96 series)		
		0.25		F (±1%)	±100	10Ω to 2.2MΩ (E24, E96 series)		
				J (±5%)	±400	1Ω to 9.1Ω (E24 series)		
					±200	10Ω to 10MΩ (E24 series)		

*E24：标准品/E96：订购生产品

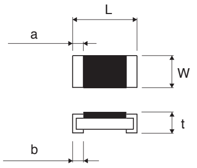
跳线类型

Part No.	Size Code mm (inch)	Rated Current (A)	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
MCR004	0402 (01005)	0.5	50mΩ Max	−55 to +125	–
MCR006	0603 (0201)	0.5			YES
MCR01	1005 (0402)	1		−55 to +155	YES
MCR03	1608 (0603)	1			YES
MCR10	2012 (0805)	2			YES
MCR18	3216 (1206)	2			YES

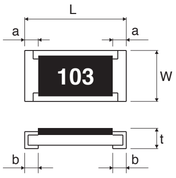
■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
MCR004	0402 (01005)	0.4±0.02	0.2±0.02	0.13±0.02	0.1±0.03	0.1 ±0.03
MCR006	0603 (0201)	0.6±0.03	0.3±0.03	0.23±0.03	0.1±0.05	0.15±0.05
MCR01	1005 (0402)	1.0±0.05	0.5±0.05	0.35±0.05	0.2±0.1	$0.25^{+0.05}_{-0.10}$
MCR03	1608 (0603)	1.6±0.1	0.8±0.1	0.45±0.1	0.3±0.2	0.3 ±0.2
MCR10	2012 (0805)	2.0±0.1	1.25±0.1	0.55±0.1	0.4±0.2	0.4 ±0.2
MCR18	3216 (1206)	3.2±0.15	1.6±0.15	0.55±0.1	0.5±0.25	0.5 ±0.25

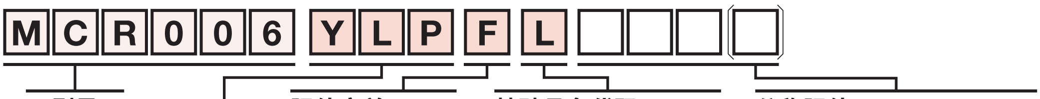
●MCR004/006/01(无标记)
●MCR03(一部分有标记)



●MCR10/18



■品名构成说明



型号

阻值容差

D	±0.5%
F	±1%
J	±5%

J is also used for jumper

特殊品名代码

L	1Ω to 9.1Ω (MCR006/01/03 F Class only)
X*	±100ppm/°C

*MCR03 F Class only

公称阻值

Resistance code, 3 or 4 digits.
000 denotes jumper type.

Tolerance		Resistance code
D, F	:	4 digits
J	:	3 digits

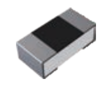
包装规格代码

Part No.	Code	Tolerance			Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)	D (±0.5%)			
MCR004	QLP	◎	◎	–	Paper tape (2mm Pitch)	ϕ180mm (7inch)	20,000
MCR006	YLP	◎	◎	◎	Paper tape (2mm Pitch)	ϕ180mm (7inch)	15,000
MCR01	MZP	◎	◎	◎	Paper tape (2mm Pitch)	ϕ180mm (7inch)	10,000
MCR03	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MCR10	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MCR18	EZP	◎	◎	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000

卷轴(ϕ180mm)：遵循JEITA规格 "EIAJ ET-7200B"
◎：标准产品

通用贴片电阻器 完全无铅型：MCRE系列

- 开发不使用含铅物质的厚膜贴片电阻器
- 符合RoHS指令(完全无铅)



MCR004E

MCRE系列

Part No.	Size Code mm (inch)	Rated Power (W) (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
New **MCR004E**	0402 (01005)	0.031 (1/32)	15	F (±1%)	±300	1Ω to 97.6Ω (E24, E96 series)	−55 to +125	–
					±250	100Ω to 1MΩ (E24, E96 series)		
				J (±5%)	±300	1Ω to 91Ω (E24 series)		
					±250	100Ω to 1MΩ (E24 series)		

*E24：标准品/E96：订购生产品

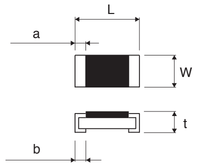
跳线类型

Part No.	Size Code mm (inch)	Rated Current (A)	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
MCR004E	0402 (01005)	0.5	50mΩ Max	−55 to +125	–

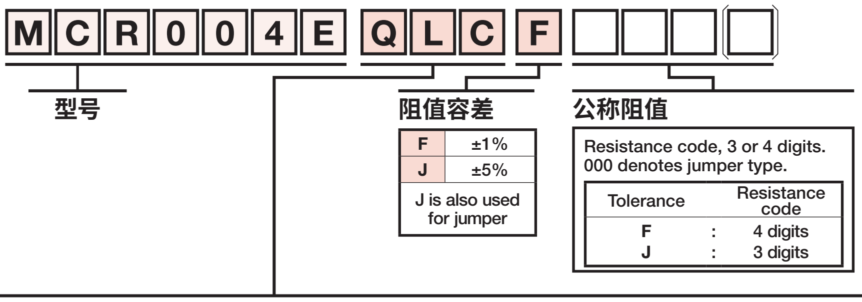
■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	a	b
MCR004E	0402 (01005)	0.40±0.02	0.20±0.02	0.13±0.02	0.10±0.03	0.10±0.03

●MCR004E(无标记)



■品名构成说明



阻值容差

F	±1%
J	±5%

J is also used for jumper

公称阻值

Resistance code, 3 or 4 digits.
000 denotes jumper type.

Tolerance	Resistance code
F :	4 digits
J :	3 digits

包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
MCR004E	QLC	◎	◎	Paper tape (2mm Pitch)	ϕ180mm (7inch)	20,000

卷轴(ϕ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

贴片排阻：MNR系列 2排、4排型

- 成本降低

  采用排阻减少安装次数，并可节省安装空间

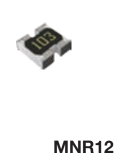
- 焊脚检查方便

  凸型电极有助于对焊脚进行目测检查

  上述检查可以采用自动检测工具


MNR02


MNR04


MNR12


MNR14

MNR系列 (1005尺寸×2～1608尺寸×4)

Part No.	Size Code mm (inch)	No. of Terminals	No. of Elements	Rated Power (W) (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
MNR02	1005 (0402)×2	4	2	0.063/Element	25	J (±5%)	±200	10Ω to 1MΩ (E24 series)	−55 to +155	YES
MNR04	1005 (0402)×4	8	4	0.063/Element	25	J (±5%)	+500/−250 ±200	1Ω to 9.1Ω (E24 series) 10Ω to 1MΩ (E24 series)		YES
MNR12	1608 (0603)×2	4	2	0.063/Element	50	J (±5%)	±200	10Ω to 1MΩ (E24 series)		YES
MNR14	1608 (0603)×4	8	4	0.063/Element	50	J (±5%)	±500 ±200	2.2Ω to 6.8Ω (E6 series) 10Ω to 1MΩ (E24 series)		YES

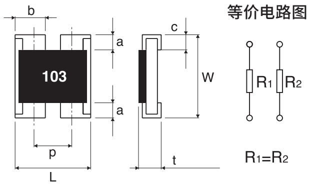
跳线类型

Part No.	Size Code mm (inch)	Rated Current	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
MNR02	1005 (0402)×2	1A/Element	50mΩ Max	−55 to +155	YES
MNR04	1005 (0402)×4	1A/Element			YES
MNR12	1608 (0603)×2	1A/Element			YES
MNR14	1608 (0603)×4	1A/Element			YES

■尺寸 (单位：mm)

●MNR02/MNR12(MNR02无标记)

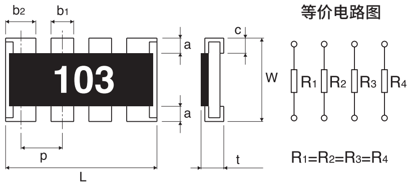
标记方法有所不同。



Part No.	L	W	t	a	b	c	p
MNR02	1.0±0.1	1.0±0.1	0.35±0.1	0.2±0.1	$0.33^{+0.1}_{-0.05}$	0.25±0.1	0.68
MNR12	1.6±0.1	1.6±0.1	0.5±0.1	0.3±0.2	0.6±0.15	0.25±0.15	0.8

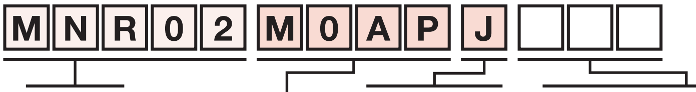
●MNR04/MNR14(MNR04无标记)

标记方法有所不同。



Part No.	L	W	t	a	b_1	b_2	c	p
MNR04	2.0±0.1	1.0±0.1	0.35±0.1	0.2±0.1	0.3±0.1	0.4±0.1	0.25±0.1	0.5
MNR14	3.2±0.1	1.6±0.1	0.5±0.1	0.3±0.2	0.4±0.15	0.6±0.15	0.25±0.15	0.8

■品名构成说明



型号

阻值容差

J	±5%
J is also used for jumper	

公称阻值

Resistance code, 3 digits.
000 denotes jumper type.

Tolerance		Resistance code
J	:	3 digits

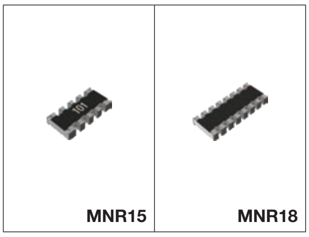
包装规格代码

Part No.	Code	Tolerance J (±5%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
MNR02	M0AP	◎	Paper tape (2mm Pitch)	ϕ180mm (7inch)	10,000
MNR04	M0AP	◎	Paper tape (2mm Pitch)	ϕ180mm (7inch)	10,000
MNR12	E0AP	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MNR14	E0AP	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000

卷轴(ϕ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

贴片排阻：MNR系列 8排型

- 8个元件内置于一个封装中，有助于节省空间、降低成本
- 采用凸型电极有助于对焊脚进行目测检查，上述检查可采用自动检测工具
- 适用于上拉电阻和阻尼电阻
- 无方向性，防止发生错误安装



MNR系列 (1608×5 to 1605×8)

Part No.	Size Code mm (inch)	No. of Terminals	No. of Elements	Rated Power (W) (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
MNR15	1608 (0603)×5	10	8	0.031/Element	12.5	J (±5%)	±200	56Ω to 100kΩ (E24 series)	−55 to +125	YES
MNR18	1605 (0602)×8	16	8	0.063/Element*	25	J (±5%)	±200	10Ω to 1MΩ (E24 series)		YES

*但不得超过0.25W

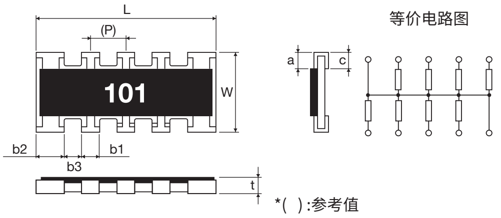
跳线类型

Part No.	Size Code mm (inch)	Rated Current	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
MNR18	1605 (0602)×8	1A/Element*	50mΩ Max	−55 to +125	YES

*但不得超过4A

■尺寸 (单位：mm)

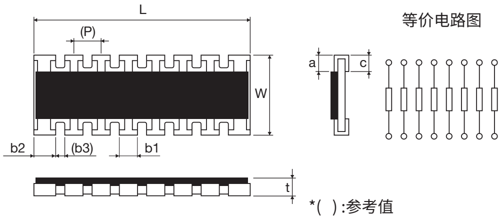
●MNR15



*( ):参考值

Part No.	L	W	t	a	b1	b2	b3	c	(P)
MNR15	3.2±0.1	1.6±0.1	0.5±0.1	0.3±0.2	0.32±0.15	0.48±0.15	0.32±0.15	0.3±0.2	(0.64)

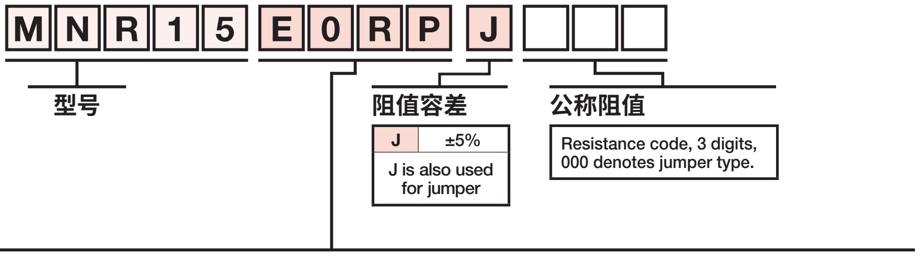
●MNR18(无标记)



*( ):参考值

Part No.	L	W	t	a	b1	b2	(b3)	c	(P)
MNR18	3.8±0.1	1.6±0.1	0.45±0.1	0.3±0.2	0.3±0.1	0.3±0.1	(0.2)	0.3±0.2	(0.5)

■品名构成说明



型号

阻值容差

J	±5%

J is also used for jumper

公称阻值

Resistance code, 3 digits, 000 denotes jumper type.

包装规格代码

Part No.	Code	Tolerance J (±5%)	Packaging Specifications	Reel	Basic Ordering Unit (pcs)
MNR15	E0RP	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000
MNR18	E0AP	◎	Paper tape (4mm Pitch)	ϕ180mm (7inch)	5,000

卷轴(ϕ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品

世界超小级别 贴片电阻器(RASMID™ 系列)

超小型 贴片电阻器：SMR003

- 采用自有工艺技术，实现高精度
- 贴片尺寸精度从±20μm提高到±10μm
- 采用金电极，提高润湿性、可靠性

*该产品1个卷轴的基本订货数量为40,000个，
并且设有最低订货批次数。详情请垂询本公司。


SMR003

SMR003 (03015尺寸)

Part No.	Size Code mm (inch)	Rated Power (W) (70°C)	Limiting Element Voltage (V)	Tolerance	Temperature Coefficient (ppm/°C)	Resistance Range	Operating Temperature (°C)	Automotive Grade AEC-Q200
SMR003	03015 (009005)	0.02	10	F (±1%)	±200	10 to 1MΩ (E24, E96 series)	–55 to +125	–
				J (±5%)		10 to 1MΩ (E24 series)		

*E24：标准品/E96：订购生产品

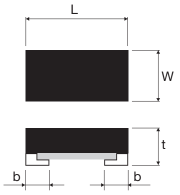
跳线类型

Part No.	Size Code mm (inch)	Rated Current (A)	Resistance	Operating Temperature (°C)	Automotive Grade AEC-Q200
SMR003	03015 (009005)	0.5	50mΩ Max	–55 to +125	–

■尺寸 (单位：mm)

Part No.	Size Code mm (inch)	L	W	t	b
SMR003	03015 (009005)	0.30±0.01	0.15±0.01	0.11±0.01	0.07±0.01

●SMR003



■品名构成说明

S M R 0 0 3 R X J □ □ □ (□)

型号

阻值容差

F	±1%
J	±5%

公称阻值

Resistance code, 3 or 4 digits.
000 denotes jumper type.

Tolerance		Resistance code
F	:	4 digits
J	:	3 digits

包装规格代码

Part No.	Code	Tolerance		Packaging Specifications	Reel	Basic Ordering Unit (pcs)
		J (±5%)	F (±1%)			
SMR003	RX	◎	◎	Embossed tape (1mm Pitch)	ϕ180mm (7inch)	40,000*

卷轴(ϕ180mm)：遵循JEITA规格“EIAJ ET-7200B”
◎：标准产品
*设有最低订货批次数。详情请垂询本公司。
RASMID™是ROHM Co., Ltd.的商标或注册商标。
RASMID™：采用ROHM自有的新工艺，实现小型化，具有高精度尺寸的超小型产品系列。

标准公称阻值等

E3	10				22				47			
E6	10		15		22		33		47		68	
E12	10	12	15	18	22	27	33	39	47	56	68	82
E24	10	11	12	13	15	16	18	20	22	24	27	30
	33	36	39	43	47	51	56	62	68	75	82	91
E96	100	102	105	107	110	113	115	118	121	124	127	130
	133	137	140	143	147	150	154	158	162	165	169	174
	178	182	187	191	196	200	205	210	215	221	226	232
	237	243	249	255	261	267	274	280	287	294	301	309
	316	324	332	340	348	357	365	374	383	392	402	412
	422	432	442	453	464	475	487	499	511	523	536	549
	562	576	590	604	619	634	649	665	681	698	715	732
	750	768	787	806	825	845	866	887	909	931	953	976

■公称阻值

属同一公称范围的系列电阻器如上表所示。
公称阻值由右表所示公比决定。

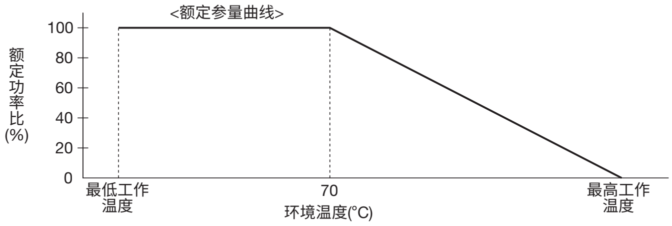
Series	Common ratio	Remarks
E6	$\sqrt[6]{10}\approx1.46$	Rounded off to a 2-digit figure.
E12	$\sqrt[12]{10}\approx1.21$	
E24	$\sqrt[24]{10}\approx1.10$	
E96	$\sqrt[96]{10}\approx1.02$	Rounded off to a 3-digit figure.

(关于阻值容差)
如果阻值容差为±5%，公称阻值用3位数表示；若电阻公差为±0.5%、±1%、±2%，公称电阻用4位数表示。其中前2位或前3位数表示有效数字，后一位表示10的幂数。此外字母R或L表示小数点。

例1　$22\Omega\rightarrow22\times10^{0}\Omega\rightarrow\underline{22}\,\underline{0}$ (最后一位数字 "0" 表示10的0次方)
例2　$47k\Omega\rightarrow47\times10^{3}\Omega\rightarrow\underline{47}\,\underline{3}$ (最后一位数字 "3" 表示10的3次方)
例3　$1.2M\Omega\rightarrow12\times10^{5}\Omega\rightarrow\underline{12}\,\underline{5}$ (最后一位数字 "5" 表示10的5次方)
例4　2.7Ω→2R7 (R表示小数点/对象为小于10Ω的低阻值)
例5　$1130\Omega\rightarrow113\times10^{1}\Omega\rightarrow\underline{113}\,\underline{1}$ (最后一位数字 "1" 表示10的1次方/阻值容差1%的F级产品)
例6　0.10Ω→R10
例7　1mΩ→1L0

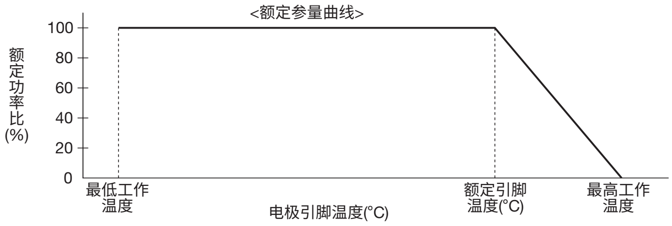
■关于额定功率的补充

・若环境温度超过额定环境温度，则根据额定参量曲线减低负载功率。



■有关电阻器使用的基本事项，请参见日本电子资讯技术产业学会 (JEITA) 发行的技术报告 JEITA RCR-2121B[电子产品中的固定电阻使用指南 (电子产品中的固定电阻安全使用指南)]

・额定环境温度规定
施加电压时的引脚温度超过额定引脚温度时，请根据额定参量曲线降低负载功率。



■补充注释

[*1] 若电阻的负载为瞬载(过大负载，如脉冲)，请务必将产品安装于电路板进行性能的评估及确认。若电压持续超过额定电压，则会降低电阻器的性能和可靠性。
请勿将大于电阻器的额定电压加于任何罗姆电阻上。

[*2] 额定电压(V)=$\sqrt{\text{额定功率 (W)×公称阻值 (Ω)}}$ 的值或者电路最高电压 (以较小者为准) 。

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

贴片LED

罗姆的贴片LED用于自动表面焊接。提供多种封装尺寸(从1.0×0.6mm)。
可用于各种用途。

红色(L, V, U)光强一览表

<table>
<tr><th>Package Structure</th><th>Package Size (mm)</th><th>Height (mm)</th><th>Luminous Intensity (mcd)
I_F (mA)</th><th>1.0 to 1.6</th><th>1.6 to 2.5</th><th>2.5 to 4.0</th><th>4.0 to 6.3</th><th>6.3 to 10.0</th><th>10 to 16</th><th>16 to 25</th><th>25 to 40</th><th>40 to 63</th><th>63 to 100</th><th>100 to 160</th><th>160 to 250</th><th>250 to 400</th><th>400 to 630</th><th>630 to 1000</th><th>1000 to 1600</th><th>1600 to 2500</th><th>2500 to 3120</th></tr>
<tr><td>Mini-mold</td><td>1006</td><td>0.2</td><td>1</td><td></td><td colspan="3">SML-P11VT (R)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
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<tr><td>Side View (mold)</td><td>16115</td><td>0.55</td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="4">SML-A12V8T</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
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<tr><td>Reverse Mount</td><td>34125</td><td>1.1</td><td>10</td><td></td><td></td><td></td><td></td><td></td><td colspan="4">SML-811VT (A)*</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
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<tr><td></td><td>3216</td><td>1.85</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="3">SML-S13VT</td><td></td><td></td><td></td><td></td></tr>
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<table>
<tr><th>Package Structure</th><th>Package Size (mm)</th><th>Height (mm)</th><th>Luminous Intensity (cd)
I_F (mA)</th><th>4.5 to 6</th><th>6 to 7</th><th>7 to 8</th><th>8 to 9</th><th>9 to 10</th><th>10 to 12</th><th>12 to 14</th><th>14 to 16</th><th>16 to 18</th><th>18 to 20</th><th>20 to 22</th><th>22 to 25</th></tr>
<tr><td>Lens</td><td>2924</td><td>3.1</td><td>20</td><td></td><td></td><td></td><td></td><td colspan="8">CSL0701UT</td></tr>
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橙色(D)光强一览表

<table>
<tr><th>Package Structure</th><th>Package Size (mm)</th><th>Height (mm)</th><th>Luminous Intensity (mcd)
I_F (mA)</th><th>1.0 to 1.6</th><th>1.6 to 2.5</th><th>2.5 to 4.0</th><th>4.0 to 6.3</th><th>6.3 to 10.0</th><th>10 to 16</th><th>16 to 25</th><th>25 to 40</th><th>40 to 63</th><th>63 to 100</th><th>100 to 160</th><th>160 to 250</th><th>250 to 400</th><th>400 to 630</th><th>630 to 1000</th><th>1000 to 1600</th><th>1600 to 2800</th></tr>
<tr><td>Mini-mold</td><td>1006</td><td>0.2</td><td>1</td><td></td><td></td><td></td><td colspan="3">SML-P11DT (R)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td></td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="3">SML-P12DT (R)</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td>1608</td><td>0.36</td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="6">SML-E12DW*1</td><td></td><td></td><td></td></tr>
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<tr><td></td><td>20125</td><td>0.8</td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="3">SML-H12D8T</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Reflector</td><td>20125</td><td>0.8</td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2">SML-M13DT</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td>3020</td><td>1.3</td><td>20</td><td></td><td></td><td></td><td colspan="5">SML-010DT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
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<tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="6">SML-012DT</td><td></td><td></td><td></td><td></td></tr>
<tr><td>PLCC2</td><td>3528</td><td>1.9</td><td>50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="4">SML-Z14D4T*</td><td></td></tr>
<tr><td></td><td></td><td></td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="4">SML-Z14DT (A)*</td><td></td><td></td><td></td></tr>
<tr><td>Side View (mold)</td><td>16115</td><td>0.55</td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="4">SML-A12D8T</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="6">SML-A12DT (J)*1</td><td></td><td></td><td></td><td></td></tr>
<tr><td>Reverse Mount</td><td>34125</td><td>1.1</td><td>10</td><td></td><td></td><td></td><td></td><td></td><td colspan="4">SML-811DT (A)*</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Lens</td><td>1608</td><td>1.24</td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="4">CSL0901DT</td><td></td><td></td></tr>
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<table>
<tr><th>Package Structure</th><th>Package Size (mm)</th><th>Height (mm)</th><th>Luminous Intensity (cd)
I_F (mA)</th><th>6 to 7</th><th>7 to 8</th><th>8 to 9</th><th>9 to 10</th><th>10 to 12</th><th>12 to 14</th><th>14 to 16</th><th>16 to 18</th><th>18 to 20</th><th>20 to 22</th><th>22 to 24</th><th>24 to 27</th><th>27 to 30</th><th>30 to 33</th><th>33 to 36</th><th>36 to 40</th><th>40 to 45</th><th>45 to 56</th></tr>
<tr><td>Lens</td><td>2924</td><td>3.1</td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="9">CSL0701DT</td></tr>
</table>

*另备有半规格产品。
*1 规格书所示光强包含±10%误差。　注：等级标记请参考规格书。

黄色(Y, W)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) I_F (mA)	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10.0	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2800
Mini-mold	1006	0.2	1				SML-P11YT (R)	▨	▨											
			20									SML-P12YT (R)	▨	▨						
												SML-P12Y3T (R)	▨	▨	▨					
										SML-P12Y2T (R)	▨	▨								
											SML-P12WT (R)	▨	▨	▨						
	1608	0.36	20								SML-E12Y8W	▨	▨	▨						
		0.55	2		SML-D11YW	▨	▨													
							SML-D12W8W (A)*	▨												
								CSL1901YW	▨	▨										
			20												SML-D15YW					
														SML-D14YW (A)*	▨					
														SML-D14WW (A)*	▨					
													SML-D13WW (A)*	▨						
													SML-D13Y8W	▨						
												SML-D13Y2W	▨	▨						
										SML-D12Y3W	▨	▨								
													SML-D12Y1W	▨						
											SML-D12Y8W	▨								
	20125	0.8	20									SML-H12Y8T	▨	▨						
Reflector	20125	0.8	20											SML-M13YT	▨					
	3020	1.3	20		SML-010YT	▨	▨	▨	▨											
											SML-011YT	▨	▨	▨						
			10						SML-011YT (A)*	▨	▨									
			20												SML-012WT (A)*	▨				
													SML-012YT (A)*	▨						
												SML-012Y8T	▨	▨	▨					
												SML-012YT	▨	▨	▨					
														SML-013YT	▨	▨				
PLCC2	3528	1.9	50														SML-Z14Y4T*	▨	▨	
			20												SML-Z14YT (A)*	▨				
Side View (mold)	16115	0.55	20								SML-A12Y8T	▨	▨	▨						
												SML-A12WT (J)*1	▨	▨						
															SML-A15YT					
Reverse Mount	34125	1.1	10							SML-811WT (A)*	▨	▨								
Lens	1608	1.24	20												CSL0901YT	▨	▨			
															CSL0901WT	▨	▨			
																	CSL0902YT	▨		
																	CSL0903YT	▨	▨	
	3216	1.85																SML-S13YT	▨	▨

黄绿色(M)、绿色(P, F)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) I_F (mA)	0.63 to 1.0	1.0 to 1.6	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10.0	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1800	1800 to 2500
Mini-mold	1006	0.2	1		SML-P11MT (R)	▨	▨														
			20							SML-P12M2T (R)	▨	▨	▨								
										SML-P12MT (R)	▨	▨	▨								
	1608								SML-P13FT (R)	▨	▨	▨									
								SML-P13PT (R)	▨	▨											
	1608	0.36	20				SML-E12P8W	▨	▨	▨											
										SML-E12M8W	▨	▨	▨								
		0.55	2		CSL1901MW	▨	▨														
			20											SML-D15MW							
													SML-D14MW (A)*	▨							
												SML-D13MW (A)*	▨								
											SML-D13FW	▨									
											SML-D13M8W	▨	▨								
							SML-D12P8W	▨	▨	▨											
											SML-D12M1W	▨	▨								
										SML-D12M8W	▨	▨	▨								
											SML-D12FW										
	20125	0.8	20							SML-H12M8T	▨	▨									
							SML-H12P8T	▨	▨												
Reflector	20125	0.8	20									SML-M13MT	▨	▨							
									SML-M13PT	▨	▨										
	3020	1.3	20						SML-010MT	▨	▨	▨									
										SML-012PT (A)*	▨	▨									
											SML-012M8T	▨	▨	▨							
							SML-012P8T	▨	▨	▨	▨										
PLCC2	3528	1.9	50									SML-Z14P4T*	▨	▨							
															SML-Z14M4T*	▨	▨				
														SML-Z14F4T*	▨						
			20										SML-Z14MT (A)*	▨	▨						
										SML-Z14PT (A)*	▨	▨									
												SML-Z14FT (A)*	▨								
Side View (mold)	16115	0.55	20							SML-A12MT (J)*1	▨	▨	▨	▨							
										SML-A12M8T	▨	▨	▨								
							SML-A12P8T	▨	▨	▨											
Reverse Mount	34125	1.1	20								SML-812MT	▨	▨	▨							
Lens	1608	1.24	20											SML-CSL0901MT	▨						
										CSL0901PT	▨	▨									
															CSL0902MT	▨					
	3216	1.85	20													SML-S13MT	▨	▨			
														SML-S13PT	▨	▨	▨				

*另备有半规格产品。

*1 规格书所示光强包含±10%误差。　注：等级标记请参考规格书。

贴片LED

绿色(E)/蓝绿色(E2、E3)光强一览表

<table>
<tr><th>Package Structure</th><th>Package Size (mm)</th><th>Height (mm)</th><th>Luminous Intensity (mcd)
I_F (mA)</th><th>9 to 14</th><th>14 to 22</th><th>22 to 36</th><th>36 to 56</th><th>56 to 90</th><th>90 to 140</th><th>140 to 220</th><th>220 to 360</th><th>360 to 560</th><th>560 to 900</th><th>900 to 1400</th><th>1400 to 2200</th><th>2200 to 3600</th><th>3600 to 5600</th></tr>
<tr><td rowspan="6">Mini-mold</td><td>1006</td><td>0.2</td><td>5</td><td></td><td></td><td></td><td></td><td colspan="3">SMLP14ECNW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td rowspan="5">1608</td><td>0.36</td><td rowspan="5">5</td><td></td><td></td><td></td><td></td><td colspan="4">SMLEN3EC8T</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td rowspan="3">0.55</td><td></td><td></td><td></td><td></td><td colspan="3">SMLD12EN1W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td colspan="2">SMLD12E2N1W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
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<tr><td>1.06</td><td></td><td></td><td></td><td></td><td></td><td colspan="3">CSL1001ET (C)</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td rowspan="2">Reflector</td><td>20125</td><td>0.8</td><td>5</td><td></td><td></td><td></td><td></td><td colspan="4">SMLMN2ECT (C)</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>3020</td><td>1.3</td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="4">SML012ENT</td><td></td><td></td><td></td><td></td></tr>
<tr><td rowspan="2">PLCC2</td><td rowspan="2">3528</td><td rowspan="2">1.9</td><td rowspan="2">20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2">SMLZ24E2N3T</td><td></td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2">SMLZN4EGT (A)*</td><td></td><td></td></tr>
<tr><td>Side View (mold)</td><td>16115</td><td>0.55</td><td>5</td><td></td><td></td><td></td><td></td><td colspan="3">SMLA12ENT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td rowspan="3">Lens</td><td rowspan="2">1608</td><td rowspan="2">1.24</td><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2">CSL0901ET</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td rowspan="2">20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="3">CSL0902ET</td><td></td><td></td></tr>
<tr><td>3216</td><td>1.85</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="3">SMLS14ENT</td></tr>
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蓝色(B)光强一览表

<table>
<tr><th>Package Structure</th><th>Package Size (mm)</th><th>Height (mm)</th><th>Luminous Intensity (mcd)
I_F (mA)</th><th>0.9 to 1.4</th><th>1.4 to 2.2</th><th>2.2 to 3.6</th><th>3.6 to 5.6</th><th>5.6 to 9.0</th><th>9 to 14</th><th>14 to 22</th><th>22 to 36</th><th>36 to 56</th><th>56 to 90</th><th>90 to 140</th><th>140 to 220</th><th>220 to 360</th><th>360 to 560</th><th>560 to 900</th><th>900 to 1400</th></tr>
<tr><td rowspan="4">Mini-mold</td><td>1006</td><td>0.2</td><td>5</td><td></td><td></td><td></td><td></td><td></td><td colspan="4">SMLP14BCNW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td rowspan="3">1608</td><td>0.36</td><td rowspan="2">5</td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="4">SMLEN3BC8T</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>0.55</td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="3">SMLD12BN1W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>1.06</td><td>1</td><td></td><td></td><td></td><td colspan="2">CSL1001BT (C)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td rowspan="2">Reflector</td><td>20125</td><td>0.8</td><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="4">SMLMN2BCT (C)</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>3020</td><td>1.3</td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="4">SML013BNT</td><td></td><td></td></tr>
<tr><td rowspan="2">PLCC2</td><td rowspan="2">3528</td><td rowspan="2">1.9</td><td rowspan="2">20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2">SMLZ24BN3T (C)</td><td></td><td></td></tr>
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<tr><td>Side View (mold)</td><td>16115</td><td>0.55</td><td>5</td><td></td><td></td><td></td><td></td><td></td><td colspan="4">SMLA12BN8T</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Reverse Mount</td><td>34125</td><td>1.1</td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="3">SML813BNT</td><td></td><td></td><td></td></tr>
<tr><td rowspan="3">Lens</td><td rowspan="2">1608</td><td rowspan="2">1.24</td><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2">CSL0901BT</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2">CSL0902BT</td><td></td><td></td></tr>
<tr><td>3216</td><td>1.85</td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="3">SMLS14BNT</td></tr>
</table>

白色(WB)光强一览表

<table>
<tr><th>Package Structure</th><th>Package Size (mm)</th><th>Height (mm)</th><th>Luminous Intensity (mcd)
I_F (mA)</th><th>9 to 14</th><th>14 to 22</th><th>22 to 36</th><th>36 to 56</th><th>56 to 90</th><th>90 to 140</th><th>140 to 220</th><th>220 to 360</th><th>360 to 560</th><th>560 to 900</th><th>900 to 1100</th><th>1100 to 1400</th><th>1400 to 1800</th><th>1800 to 2200</th><th>2200 to 2800</th><th>2800 to 3600</th><th>3600 to 7000</th><th>7000 to 8500</th></tr>
<tr><td rowspan="3">Mini-mold</td><td>1006</td><td>0.2</td><td>5</td><td></td><td></td><td></td><td></td><td></td><td colspan="3">SMLP14WBCNIW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td rowspan="2">1608</td><td>0.36</td><td rowspan="2">5</td><td></td><td></td><td></td><td></td><td colspan="3">SMLEN3WBC8W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>0.55</td><td></td><td></td><td></td><td></td><td colspan="3">SMLD12WBN1W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td rowspan="5">Reflector</td><td rowspan="4">1608</td><td rowspan="4">0.55</td><td>5</td><td></td><td></td><td></td><td></td><td></td><td colspan="2">CSL1101WBxW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td rowspan="3">20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="3">CSL1102WBxW</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
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<tr><td>20125</td><td>0.8</td><td>5</td><td></td><td></td><td></td><td></td><td colspan="3">SMLMN2WB1CW (C)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>PLCC2</td><td>3528</td><td>1.9</td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="3">SMLZN4WBGUW (A)*</td><td></td><td></td></tr>
<tr><td>Side View</td><td>16115</td><td>0.55</td><td>5</td><td></td><td></td><td colspan="4">SMLA12WBN7W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>(Reflector)</td><td>2812</td><td>0.8</td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="4">CSL0416WBCW</td><td></td><td></td></tr>
<tr><td>Reverse Mount</td><td>34125</td><td>1.1</td><td>2</td><td colspan="4">SML811WBCN1W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
</table>

<table>
<tr><th>Package Structure</th><th>Package Size (mm)</th><th>Height (mm)</th><th>Luminous Intensity (cd)
I_F (mA)</th><th>2.2 to 2.8</th><th>2.8 to 3.3</th><th>3.3 to 4.0</th><th>4.0 to 4.8</th><th>4.8 to 5.8</th><th>5.8 to 7.0</th><th>7.0 to 8.5</th><th>8.5 to 10.2</th><th>10.2 to 12.3</th><th>12.3 to 14.8</th><th>14.8 to 19.0</th><th>19.0 to 21.8</th><th>21.8 to 24.5</th><th>24.5 to 27.2</th><th>27.2 to 29.3</th><th>29.3 to 32.6</th><th>32.6 to 35.4</th></tr>
<tr><td rowspan="2">Reflector</td><td rowspan="2">4520</td><td rowspan="2">0.6</td><td rowspan="2">90</td><td></td><td></td><td></td><td></td><td colspan="3">SMLK18WBNCW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td colspan="3">SMLK28WBNCW</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
</table>

*另备有半规格产品。
*1 规格书所示光强包含±10%误差。　注：等级标记请参考规格书。

双色光强一览表

Package Structure	Package Size (mm)	Height (mm)	I_F (mA)	Luminous Intensity (mcd) / Emitting Color	2.5 to 4.0	4.0 to 6.3	6.3 to 10.0	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160
Mini-mold	1010	0.2	20	Red						▨ SML-P24MUW (R)	▨	▨	
				Yellow Green				▨	▨	▨			
	1315	0.6	5	Blue			▨	▨	▨ SML522BUNW	▨			
				Red				▨	▨	▨			
			20	Yellow Green				▨	▨	▨ SML-522MUW	▨	▨	
				Red					▨	▨	▨	▨	▨
				Yellow Green					▨	▨ SML-522MU8W	▨		
				Red						▨	▨	▨	
				Yellow Green				▨	▨	▨ SML-522MD8W			
				Orange							▨	▨	▨
				Yellow Green					▨	▨	▨ SML-522MY8W		
				Yellow							▨	▨	▨
	1608	0.55	5	Yellow Green		▨	▨	▨ SML-D22MUW					
				Red				▨	▨				
				Yellow					▨ SML-D22YVW	▨			
				Red				▨	▨				
Reflector	3025	1.3	20	Yellow Green			▨	▨ SML-020MDT	▨	▨	▨		
				Orange		▨	▨	▨	▨				
				Yellow Green			▨	▨	▨	▨	▨		
				Red		▨	▨ SML-020MVT	▨					
				Yellow		▨	▨	▨ SML-020MYT	▨				
				Yellow Green			▨	▨	▨	▨	▨		
Reverse Mount	34125	1.1	20	Yellow Green					▨	▨ SML-822MV8W			
				Red					▨	▨	▨		
				Yellow Green							▨ SML-825MVW	▨	
				Red							▨	▨	

三色光强一览表

Package Structure	Package Size (mm)	Height (mm)	I_F (mA)	Luminous Intensity (mcd) / Emitting Color	5.6 to 9.0	9 to 14	14 to 22	22 to 36	36 to 56	56 to 90	90 to 140	140 to 220	220 to 360	360 to 560	560 to 900	900 to 1400	1400 to 1800
Mini-mold	1010	0.2	5	Red					▨	▨	▨						
				Green							SMLP34RGBN1W	▨	▨				
				Blue					▨	▨	▨						
	1510	0.2	5	Red					▨	▨	▨						
				Green							SMLP36RGBNW	▨	▨				
				Blue					▨	▨	▨						
Reflector	1816	0.5	20	Red									▨	▨			
				Green									MSL0402RGBU	▨	▨		
				Blue							▨	▨	▨				
	3528	0.6		Red										▨	▨	▨	
				Green											▨ SMLVN6RGB1W	▨	▨
				Blue									▨	▨			
				Red										▨	▨	▨	
				Green											▨ SMLVN6RGB1U	▨	▨
				Blue									▨	▨			
				Red									▨	▨	▨		
				Green											▨ SMLVN6RGB7W	▨	▨
				Blue								▨	▨	▨			
Side View (Reflector)	29135	1.0	20	Red											▨		
				Green											MSL0601RGBU	▨	▨
				Blue									▨	▨			
	6922	2.15		Red										▨	▨	▨	
				Green											▨ MSL0104RGBW	▨	▨
				Blue									▨	▨			
				Red										▨	▨	▨	
				Green											▨ MSL0104RGBU	▨	▨
				Blue									▨	▨			

*1 规格书所示光强包含±10%误差。 注：等级标记请参考规格书。

贴片LED(车载适用品)

红色(V, U)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) I_F (mA)	6.3 to 10	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2500	2500 to 3120
Mini-mold	1608	0.55	20						▨	SML-D15VW (C)							
								SML-D13VW (C)	▨								
						▨	SML-D12V8W (C)	▨	▨								
										▨	SML-D15UW (C)						
										▨		SML-D15U2W (C)					
									SML-D13UW (C)	▨							
							▨	SML-D12U8W (C)	▨	▨							
	20125	0.8	20			▨	SML-H12V8T (C)	▨									
							▨	SML-H12U8T (C)	▨								
PLCC	3528	1.9	20						SML-Z14VT (C)	▨							
										▨	SML-Z14UT (C)	▨					
Reverse Mount	34125	1.1	10		▨	SML-811VT (C)	▨										
					▨	SML-811UT (C)	▨										
Lens	1608	1.24	20								CSL0901VT (C)						
											CSL0901UT (C)	▨					
											CSL0902VT (C)	▨					
												CSL0902UT (C)	▨				
														CSL0903VT (C)			
															CSL0903UT (C)		

橙色(D)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) I_F (mA)	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2800
Mini-mold	1608	0.55	20							▨	SML-D15DW (C)				
								▨	SML-D13DW (C)						
							▨	SML-D12D8W (C)	▨	▨					
	20125	0.8	20				▨	SML-H12D8T (C)	▨						
PLCC	3528	1.9	20							SML-Z14DT (C)	▨				
Reverse Mount	34125	1.1	10	▨	SML-811DT (C)	▨									
Lens	1608	1.24	20								CSL0901DT (C)	▨			
												CSL0902DT (C)	▨		
														CSL0903DT (C)	

黄色(Y, W)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) I_F (mA)	2.5 to 4.0	4.0 to 6.3	6.3 to 10.0	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000	1000 to 1600	1600 to 2800
Mini-mold	1608	0.55	2		▨	SML-D12W8W (C)												
			20										▨	SML-D15YW (C)				
											▨	SML-D13WW (C)						
									▨	SML-D12Y8W (C)	▨	▨						
	20125	0.8	20							▨	SML-H12Y8T (C)	▨						
PLCC	3528	1.9	20										SML-Z14YT (C)	▨				
Reverse Mount	34125	1.1	10					▨	SML-811WT (C)	▨								
Lens	1608	1.24	20											CSL0901YT (C)				
													▨	▨	CSL0901WT (C)			
															CSL0902YT (C)			
																CSL0903YT (C)		

黄绿色(M)、绿色(P、F)光强一览表

Package Structure	Package Size (mm)	Height (mm)	Luminous Intensity (mcd) I_F (mA)	1.6 to 2.5	2.5 to 4.0	4.0 to 6.3	6.3 to 10.0	10 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 1000
Mini-mold	1608	0.55	20									▨	SML-D15MW (C)				
										▨	SML-D13MW (C)						
					▨	SML-D12P8W (C)	▨	▨									
									SML-D13FW (C)	▨							
								▨	SML-D12M8W (C)	▨	▨						
	20125	0.8	20					▨	SML-H12M8T (C)	▨							
					▨	SML-H12P8T (C)	▨										
PLCC	3528	1.9	20								▨	SML-Z14MT (C)	▨				
										SML-Z14FT (C)	▨						
								▨	SML-Z14PT (C)	▨							
Lens	1608	1.24	20										CSL0901MT (C)				
									CSL0901PT (C)	▨							
													CSL0902MT (C)	▨			

绿色(E)/蓝绿色(E2)光强一览表

<table>
<tr><th>Package Structure</th><th>Package Size (mm)</th><th>Height (mm)</th><th>Luminous Intensity (mcd)
I_F (mA)</th><th>36 to 56</th><th>56 to 90</th><th>90 to 140</th><th>140 to 220</th><th>220 to 360</th><th>360 to 560</th><th>560 to 900</th><th>900 to 1400</th><th>1400 to 2200</th><th>2200 to 3600</th><th>3600 to 5600</th></tr>
<tr><td>Mini-mold</td><td>1608</td><td>1.06</td><td>5</td><td></td><td></td><td colspan="2">CSL1001ET (C)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Reflector</td><td>20125</td><td>0.8</td><td>5</td><td></td><td colspan="4">SMLMN2ECT (C)</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>PLCC</td><td>3528</td><td>1.9</td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2">SMLZ24E2N3T (C)</td><td></td><td></td></tr>
<tr><td rowspan="2">Lens</td><td rowspan="2">1608</td><td rowspan="2">1.24</td><td>5</td><td></td><td></td><td></td><td></td><td colspan="2">CSL0901ET (C)</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2">CSL0902ET (C)</td><td></td><td></td></tr>
</table>

蓝色(B)光强一览表

<table>
<tr><th>Package Structure</th><th>Package Size (mm)</th><th>Height (mm)</th><th>Luminous Intensity (mcd)
I_F (mA)</th><th>2.2 to 3.6</th><th>3.6 to 5.6</th><th>5.6 to 9.0</th><th>9 to 14</th><th>14 to 22</th><th>22 to 36</th><th>36 to 56</th><th>56 to 90</th><th>90 to 140</th><th>140 to 220</th><th>220 to 360</th><th>360 to 560</th><th>560 to 900</th></tr>
<tr><td rowspan="2">Mini-mold</td><td rowspan="2">1608</td><td>0.55</td><td>5</td><td></td><td></td><td></td><td></td><td colspan="3">SMLD12BN1W (C)</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>1.06</td><td>1</td><td></td><td colspan="2">CSL1001BT (C)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Reflector</td><td>20125</td><td>0.8</td><td>5</td><td></td><td></td><td></td><td></td><td colspan="4">SMLMN2BCT (C)</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>PLCC</td><td>3528</td><td>1.9</td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2">SMLZ24BN3T (C)</td><td></td></tr>
<tr><td rowspan="2">Lens</td><td rowspan="2">1608</td><td rowspan="2">1.24</td><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2">CSL0901BT (C)</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="2">CSL0902BT (C)</td><td></td></tr>
</table>

白色(WB)光强一览表

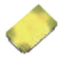
<table>
<tr><th>Package Structure</th><th>Package Size (mm)</th><th>Height (mm)</th><th>Luminous Intensity (mcd)
I_F (mA)</th><th>36 to 56</th><th>56 to 90</th><th>90 to 140</th><th>140 to 220</th><th>220 to 360</th><th>360 to 560</th><th>560 to 900</th><th>900 to 1100</th><th>1000 to 1400</th><th>1400 to 1800</th></tr>
<tr><td>Mini-mold</td><td>1608</td><td>0.55</td><td>5</td><td></td><td colspan="3">SMLD12WBN1W (C)</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td rowspan="9">Reflector</td><td rowspan="8">1608</td><td rowspan="8">0.55</td><td rowspan="4">5</td><td></td><td></td><td colspan="2">CSL1101WBAW (C)</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td colspan="2">CSL1101WBBW (C)</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td colspan="2">CSL1101WBCW (C)</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td></td><td colspan="2">CSL1101WBDW (C)</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td rowspan="4">20</td><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="3">CSL1102WBAW (C)</td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="3">CSL1102WBBW (C)</td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="3">CSL1102WBCW (C)</td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td></td><td colspan="3">CSL1102WBDW (C)</td><td></td></tr>
<tr><td>20125</td><td>0.8</td><td>5</td><td></td><td colspan="3">SMLMN2WB1CW (C)</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
</table>

三色(RGB)光强一览表

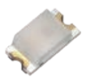
<table>
<tr><th>Package Structure</th><th>Package Size (mm)</th><th>Height (mm)</th><th>I_F (mA)</th><th>Luminous Intensity (mcd)
Emitting Color</th><th>220 to 280</th><th>280 to 360</th><th>360 to 450</th><th>450 to 560</th><th>560 to 710</th><th>710 to 900</th><th>900 to 1100</th><th>1100 to 1400</th><th>1400 to 1800</th><th>1800 to 2200</th></tr>
<tr><td rowspan="3">Reflector</td><td rowspan="3">3528</td><td rowspan="3">0.6</td><td rowspan="3">20</td><td>Red</td><td></td><td></td><td></td><td></td><td colspan="2">🟥</td><td></td><td></td><td></td><td></td></tr>
<tr><td>Green</td><td></td><td></td><td></td><td></td><td></td><td>SMLVN6RGBFU1 (C)</td><td></td><td></td><td colspan="2">🟩</td></tr>
<tr><td>Blue</td><td></td><td colspan="3">🟦</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
</table>

贴片LED

PICOLED™ 模具型0402(1006M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)						
 PICOLED™-eco 1.0×0.6 (t=0.2)	Red	SML-P11VT (R)	626	1	2	4	6	1	1.8	1	10	5	50	20	100*2	5	−40 to +85	−40 to +100
		SML-P11UT (R)	621	1	1	3	6	1	1.8	1	10	5	50	20	100*2	5	−40 to +85	−40 to +100
	Orange	SML-P11DT (R)	605	1	4	7	16	1	1.9	1	10	5	52	20	100*2	5	−40 to +85	−40 to +100
	Yellow	SML-P11YT (R)	586	1	4	8	16	1	1.9	1	10	5	52	20	100*2	5	−40 to +85	−40 to +100
	Yellow Green	SML-P11MT (R)	569	1	1	2	4	1	1.9	1	10	5	54	20	100*2	5	−40 to +85	−40 to +100
  (E/B)  (WB) PICOLED™ 1.0×0.6 (t=0.2)	Red	SML-P12VT (R)	630	20	25	60	100	20	2.0	20	10	5	50	20	100*2	5	−40 to +85	−40 to +100
		SML-P12UT (R)	620	20	40	85	160	20	2.0	20	10	5	50	20	100*2	5	−40 to +85	−40 to +100
		SML-P12U2T (R)	615	20	25	70	160	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
	Orange	SML-P12DT (R)	605	20	63	100	250	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
	Yellow	SML-P12Y3T (R)	596	20	40	90	250	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
		SML-P12YT (R)	590	20	40	100	160	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
		SML-P12WT (R)	585	20	25	70	160	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
		SML-P12Y2T (R)	580	20	16	50	100	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
	Yellow Green	SML-P12M2T (R)	576	20	10	25	63	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SML-P12MT (R)	572	20	10	25	63	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Green	SML-P13FT (R)	566	20	6	18	40	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
		SML-P13PT (R)	560	20	4	10	16	20	2.1	20	10	5	52	20	100*2	5	−40 to +85	−40 to +100
		SMLP14ECNW	527	5	56	110	220	5	3.0	5	100	5	34	10	50*2	5	−40 to +85	−40 to +100
	Blue	SMLP14BCNW	470	5	9	25	56	5	2.9	5	100	5	33	10	50*2	5	−40 to +85	−40 to +100
	White	SMLP14WBCN1W	(x, y) (0.30, 0.30)	5	90	180	360	5	2.9	5	100	5	33	10	50*2	5	−40 to +85	−40 to +100

模具型0603(1608M)

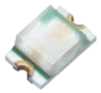
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)						
  (WB) 1.6×0.8 (t=0.36)	Red	SML-E12V8W	630	20	16	40	100	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SML-E12UW	624	20	36	85	280	20	2.0	20	10	5	62	25	60*1	5	−30 to +85	−40 to +85
		SML-E12U8W	620	20	25	63	160	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Orange	SML-E12DW	607	20	56	150	450	20	2.0	20	10	5	62	25	60*1	5	−30 to +85	−40 to +85
		SML-E12D8W	605	20	40	100	250	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Yellow	SML-E12Y8W	590	20	25	63	160	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Yellow Green	SML-E12M8W	572	20	10	25	63	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Green	SML-E12P8W	560	20	3	6	16	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SMLEN3EC8T	527	5	56	120	360	5	3.0	5	10	5	68	20	100*2	5	−40 to +85	−40 to +100
	Blue	SMLEN3BC8T	470	5	14	40	90	5	2.9	5	10	5	66	20	100*2	5	−40 to +85	−40 to +100
	White	SMLEN3WBC8W	(x, y) (0.30, 0.30)	5	56	120	220	5	2.9	5	10	5	33	10	50*2	5	−40 to +85	−40 to +100
  (WB) 1.6×0.8 (t=0.55)	Red	SML-D12L8W	635	20	10	16	40	20	2.0	20	10	5	50	20	100*3	5	−40 to +85	−40 to +100
		SML-D14VW (A)	630	20	71	100	180	20	2.0	20	10	5	72	30	100*2	5	−40 to +100	−40 to +100
		Single rank SML-D15VW				90	112						84	35				
		SML-D13VW (A)			36	55	90						72	30				
		SML-D12V8W			16	40	100		2.2				54	20			−40 to +85	
		SML-D12V1W			25		63											
		New CSL1901VW		2	1.6	4.8	6.3	2	1.8	2			44					
		Single rank SML-D15UW	620	20	90	112	140	20	2.0	20	10	5	84	35	100*2	5	−40 to +100	−40 to +100
		SML-D13UW (A)			56	85							72	30				
		SML-D13U8W			40	70	160		2.1				52	20			−40 to +85	
		SML-D12U8W			25	63			2.2				54					
		SML-D12U1W			40		100											
		New CSL1901UW		2	2.5	6	10	2	1.8	2			44					
		SML-D14U2W (A)	615	20	90	160	224	20	2.0	20	10	5	72	30	100*2	5	−40 to +100	−40 to +100
		Single rank SML-D15U2W			112	140	180						84	35				
	Orange	Single rank SML-D15DW	605	20	180	224	280	20	2.0	20	10	5	84	35	100*2	5	−40 to +100	−40 to +100
		SML-D14DW (A)			112	200							72	30				
		SML-D13DW (A)			71	120	180											
		SML-D12D8W			40	100	250		2.2				54	20			−40 to +85	
		SML-D12D1W			63		160											
		New CSL1901DW		2	6.3	9.4	25	2	1.8	2			44					
	Yellow	Single rank SML-D15YW	590	20	180	224	280	20	2.1	20	10	5	87	35	100*2	5	−40 to +100	−40 to +100
		SML-D14YW (A)			112	200							75	30				
		SML-D12Y1W			63	100	160		2.2				54	20			−40 to +85	
		SML-D13Y8W																
		SML-D12Y8W			25	63												
		New CSL1901YW		2	6.3	9.4	25	2	1.8	2			44					
		SML-D12W8W (A)	588	2	5	7	9	2	2.0	2	10	12	52	20	100*2	12	−40 to +100	−40 to +100
		SML-D11YW			2	4	6		1.9			5	67	25		5	−40 to +85	
		SML-D14WW (A)	587	20	112	180	280	20	2.1	20	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-D13WW (A)			71	110	180											
		SML-D13Y2W	581	20	40	80	160	20	2.1	20	10	5	78	30	100*2	5	−40 to +85	−40 to +100
		SML-D12Y3W			16	40	100		2.2				54	20				
	Yellow Green	SML-D12M1W	572	20	16	30	63	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SML-D13M8W																
		SML-D12M8W			10	25												
		Single rank SML-D15MW	571	20	56	71	90	20	2.1	20	10	5	87	35	100*2	5	−40 to +100	−40 to +100
		SML-D14MW (A)			36	60							75	30				
		SML-D13MW (A)			28	45	71											
		New CSL1901MW	570	2	1	3	4	2	1.8	2	10	5	44	20	100*2	5	−40 to +85	−40 to +100
	Green	SML-D13FW	565	20	18	22	36	20	2.1	20	10	5	81	30	100*2	5	−40 to +85	−40 to +100
		SML-D12FW			14	18	28		2.2				67	25				
		SML-D12P8W	560	20	3	6	16	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SMLD12EN1W	527	5	56	140	220	5	3.0	5	10	5	70	20	100*2	5	−40 to +100	−40 to +100
	Blue Green	SMLD12E2N1W	505	5	56	120	140	5	2.9	5	10	5	66	20	100*2	5	−40 to +100	−40 to +100
		SMLD12E3N1W	496	5	56	85	140	5	2.9	5	10	5	66	20	100*2	5	−40 to +100	−40 to +100
	Blue	SMLD12BN1W	470	5	14	40	56	5	2.9	5	10	5	66	20	100*2	5	−40 to +100	−40 to +100
	White	SMLD12WBN1W	(x, y) (0.295, 0.280)	5	56	120	220	5	2.9	5	10	5	66	20	100*2	5	−40 to +100	−40 to +100

*1 Duty≤1/5, 200Hz　*2 Duty≤1/10, 1kHz　*3 Duty≤1/10, pulse width 10ms Max
*关于白色，用色度坐标(x, y)标记。
注1：PICOLED™ 是ROHM Co., Ltd.的商标或注册商标。

模具型0603(1608M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)						
 1.6×0.8 (t=1.06)	Green	CSL1001ET (C)	527	5	90	140	224	5	3.0	5	10	5	35	10	50*2	5	−40 to +100	−40 to +100
	Blue	CSL1001BT (C)	470	1	4	6	9	1	2.8	1	10	5	33	10	50*2	5	−40 to +100	−40 to +100

模具型0805(20125M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)						
 2.0×1.25 (t=0.8)	Red	SML-H12V8T	630	20	16	25	63	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SML-H12U8T	620	20	25	40	100	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Orange	SML-H12D8T	605	20	40	63	160	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Yellow	SML-H12Y8T	590	20	40	63	160	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Yellow Green	SML-H12M8T	572	20	10	25	40	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Green	SML-H12P8T	560	20	3	4	10	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100

折射型0603(1608M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)						
 1.6×0.8 (t=0.55)	White	New CSL1101WBAW	(x, y) (0.282, 0.249)	5	90	155	220	5	2.9	5	10	5	68	20	100*2	5	−40 to +110	−40 to +110
		New CSL1101WBBW	(x, y) (0.261, 0.261)	5	90	155	220	5	2.9	5	10	5	68	20	100*2	5	−40 to +110	−40 to +110
		New CSL1101WBCW	(x, y) (0.303, 0.294)	5	90	155	220	5	2.9	5	10	5	68	20	100*2	5	−40 to +110	−40 to +110
		New CSL1101WBDW	(x, y) (0.284, 0.303)	5	90	155	220	5	2.9	5	10	5	68	20	100*2	5	−40 to +110	−40 to +110
		New CSL1102WBAW	(x, y) (0.282, 0.249)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100*2	5	−40 to +110	−40 to +110
		New CSL1102WBBW	(x, y) (0.261, 0.261)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100*2	5	−40 to +110	−40 to +110
		New CSL1102WBCW	(x, y) (0.303, 0.294)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100*2	5	−40 to +110	−40 to +110
		New CSL1102WBDW	(x, y) (0.284, 0.303)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100*2	5	−40 to +110	−40 to +110
		CSL1103WBAW	(x, y) (0.282, 0.249)	20	900	1,500	2,200	20	3.2	20	10	5	152	40	100*2	5	−40 to +110	−40 to +110
		CSL1103WBBW	(x, y) (0.261, 0.261)	20	900	1,500	2,200	20	3.2	20	10	5	152	40	100*2	5	−40 to +110	−40 to +110
		CSL1103WBCW	(x, y) (0.303, 0.294)	20	900	1,500	2,200	20	3.2	20	10	5	152	40	100*2	5	−40 to +110	−40 to +110
		CSL1103WBDW	(x, y) (0.284, 0.303)	20	900	1,500	2,200	20	3.2	20	10	5	152	40	100*2	5	−40 to +110	−40 to +110
		CSL1104WBAW	(x, y) (0.282, 0.249)	20	1,400	2,000	2,800	20	2.9	20	10	5	144	40	100*2	5	−40 to +110	−40 to +110
		CSL1104WBBW	(x, y) (0.261, 0.261)	20	1,400	2,000	2,800	20	2.9	20	10	5	144	40	100*2	5	−40 to +110	−40 to +110
		CSL1104WBCW	(x, y) (0.303, 0.294)	20	1,400	2,000	2,800	20	2.9	20	10	5	144	40	100*2	5	−40 to +110	−40 to +110
		CSL1104WBDW	(x, y) (0.284, 0.303)	20	1,400	2,000	2,800	20	2.9	20	10	5	144	40	100*2	5	−40 to +110	−40 to +110

折射型0805(20125M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)						
 (WB) 2.0×1.25 (t=0.8)	Red	SML-M13VT	630	20	40	75	100	20	2.0	20	10	5	75	30	100*2	5	−40 to +85	−40 to +100
		SML-M13UT	620	20	63	120	160	20	2.0	20	10	5	75	30	100*2	5	−40 to +85	−40 to +100
	Orange	SML-M13DT	605	20	100	160	250	20	2.0	20	10	5	75	30	100*2	5	−40 to +85	−40 to +100
	Yellow	SML-M13YT	590	20	100	160	250	20	2.0	20	10	5	75	30	100*2	5	−40 to +85	−40 to +100
	Yellow Green	SML-M13MT	572	20	25	45	100	20	2.2	20	10	5	81	30	100*2	5	−40 to +85	−40 to +100
	Green	SML-M13PT	560	20	6	16	25	20	2.2	20	10	5	81	30	100*2	5	−40 to +85	−40 to +100
		SMLMN2ECT (C)	527	5	56	140	360	5	3.0	5	10	12	70	20	100*2	12	−40 to +100	−40 to +100
	Blue	SMLMN2BCT (C)	470	5	14	36	90	5	2.9	5	10	12	68	20	100*2	12	−40 to +100	−40 to +100
	White	SMLMN2WB1CW (C)	(x, y) (0.30, 0.28)	5	56	140	220	5	2.9	5	10	12	68	20	100*2	12	−40 to +100	−40 to +100

折射型(3020M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)						
 3.0×2.0 (t=1.3)	Red	SML-010VT	650*3	20	2	6	18	20	2.0	20	10	4	70	25	60*1	4	−30 to +85	−40 to +85
		SML-011VT (A)	639*3	10	14	28	56	10	2.0	10	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-011UT	630*3	20	22	63	180	20	2.0	20	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-012VT (A)	630	20	36	71	140	20	2.0	20	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-012V8T			25	63	160		2.2				54	20			−40 to +85	
		SML-013UT	624	20	90	220	710	20	2.0	20	10	5	75	30	100*2	5	−30 to +85	−40 to +100
		SML-012UT			36	100	280										−40 to +100	
		SML-012U8T	620	20	40	100	250	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
	Orange	SML-011DT	611*3	20	22	63	180	20	2.0	20	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-011DT (A)		10		45	90	10		10								
		SML-010DT	610*3	20	4	10	28	20	2.0	20	100	4	70	25	60*1	4	−30 to +85	−40 to +85
		SML-012DT	606	20	36	100	280	20	2.0	20	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-012D8T	605	20	63	160	400	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SML-012DT (A)			71	140	280											
	Yellow	SML-011YT	590*3	20	22	63	180	20	2.0	20	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-011YT (A)		10	11	22	45	10		10								
		SML-012WT (A)	590	20	140	280	450	20	2.0	20	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-013YT			100	250	630		2.1								−40 to +85	
		SML-012YT			36	100	280		2.0								−40 to +100	
		SML-012Y8T			40		250		2.2				54	20			−40 to +85	
		SML-012YT (A)	587	20	56	112	224	20	2.0	20	10	5	75	30	100*2	5	−40 to +100	−40 to +100
		SML-010YT	585*3	20	2	6	18	20	2.1	20	100	4	70	25	60*1	4	−30 to +85	−40 to +85
	Yellow Green	SML-012M8T	572	20	16	40	100	20	2.2	20	10	5	54	20	100*2	5	−40 to +85	−40 to +100
		SML-010MT	570*3	20	6	25	45	20	2.2	20	100	4	70	25	60*1	4	−30 to +85	−40 to +85
	Green	SML-012PT (A)	560	20	9	18	36	20	2.1	20	10	5	62	25	60*2	5	−40 to +100	−40 to +100
		SML-012P8T			3		25		2.2				54	20	100*2		−40 to +85	
		SML012ENT	525	20	140	360	900	20	3.2	20	100	5	84	20	100*2	5	−30 to +85	−40 to +100
	Blue	SML013BNT	470	20	90	250	560	20	3.2	20	100	5	78	20	100*2	5	−30 to +85	−40 to +100

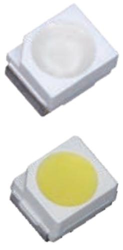
*1 Duty≦1/5, 200Hz　*2 Duty≦1/10, 1kHz　*3 峰值波长

*关于白色，用色度坐标(x, y)标记。

注：零件号末尾处的“C”表示车载级产品。详情请联系销售代表。

贴片LED

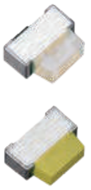
折射型PLCC(3528M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)						
 (WB) **PLCC** 3.5×2.8 (t=1.9)	Red	**SML-Z14V4T**	630	50	140	280	560	50	2.0	50	10	12	189	70	200*2	12	–40 to 100	–40 to 100
		SML-Z14VT (A)		20	56	112	180	20	1.9	20			168					
		SML-Z14U4T	620	50	280	560	1,120	50	2.0	50	10	12	189	70	200*2	12	–40 to 100	–40 to 100
		SML-Z14UT (A)		20	112	224	355	20	1.9	20			168					
	Orange	**SML-Z14D4T**	605	50	355	710	1,400	50	2.0	50	10	12	189	70	200*2	12	–40 to 100	–40 to 100
		SML-Z14DT (A)		20	140	280	450	20	1.9	20			168					
	Yellow	**SML-Z14Y4T**	590	50	355	710	1,400	50	2.1	50	10	12	189	70	200*2	12	–40 to 100	–40 to 100
		SML-Z14YT (A)	589	20	140	280	450	20	2.0	20	10	12	175	70	200*2	12	–40 to 100	–40 to 100
	Yellow Green	**SML-Z14M4T**	572	50	112	224	450	50	2.1	50	10	12	189	70	200*2	12	–40 to 100	–40 to 100
		SML-Z14MT (A)	571	20	45	90	140	20	2.0	20	10	12	175	70	200*2	12	–40 to 100	–40 to 100
	Green	**SML-Z14F4T**	565	50	56	120	180	50	2.1	50	10	12	189	70	200*2	12	–40 to 100	–40 to 100
		SML-Z14FT (A)	564	20	22	45	71	20	2.0	20	10	12	175	70	200*2	12	–40 to 100	–40 to 100
		SML-Z14P4T	561	50	22	56	90	50	2.1	50	10	12	189	70	200*2	12	–40 to 100	–40 to 100
		SML-Z14PT (A)	560	20	11	22	36	20	2.0	20	10	12	175	70	200*2	12	–40 to 100	–40 to 100
		SMLZN4EGT (A)	528	20	900	1,500	2,200	20	3.4	20	10	5	120	30	100*2	5	–40 to 100	–40 to 100
	Blue Green	**SMLZ24E2N3T (C)**	505	20	900	1,140	1,800	20	3.2	20	—	—	152	40	100*2	—	–40 to 100	–40 to 100
	Blue	**SMLZ24BN3T (C)**	470	20	220	300	450	20	3.3	20	—	—	114	30	100*2	0.9	–40 to 100	–40 to 100
		SMLZN4BGT (A)			140												–40 to 85	
	White	**SMLZN4WBGUW (A)**	(x, y) (0.30, 0.28)	20	1,800	2,400	3,600	20	3.3	20	—	—	114	30	100*2	0.9	–40 to 85	–40 to 100

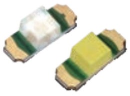
折射型(4520M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Chromaticity Coordinates*		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
			(x, y)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)						
 4.5×2.0 (t=0.6)	White	**SMLK18WBNCW**	(0.30, 0.28)	90	4,800	5,900	8,500	90	3.9	90	10	5	675	150	230*3	5	–40 to +100	–40 to +100
		New **SMLK28WBNCW**								150	—	—				—		

侧视型

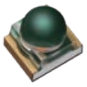
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)						
 (WB) 1.6×1.15 (t=0.55)	Red	**SML-A12V8T**	630	20	16	40	100	20	2.2	20	10	5	54	20	100*2	5	-40 to +85	-40 to +100
		SML-A12UT (J)	624	20	36	100	280	20	2.0	20	10	5	75	30	100*2	5	-40 to +85	-40 to +100
		SML-A12U8T	620	20	25	63	160	20	2.2	20	10	5	54	20	100*2	5	-40 to +85	-40 to +100
	Orange	**SML-A12DT (J)**	606	20	36	100	280	20	2.0	20	10	5	75	30	100*2	5	-40 to +85	-40 to +100
		SML-A12D8T	605	20	40	100	250	20	2.2	20	10	5	54	20	100*2	5	-40 to +85	-40 to +100
	Yellow	**SML-A12WT (J)**	590	20	36	63	180	20	2.0	20	10	5	75	30	100*2	5	-40 to +85	-40 to +100
		SML-A12Y8T			25		160		2.2				54	20				
		SML-A15YT			180	—	280		2.1				87	35			-40 to +100	
	Yellow Green	**SML-A12M8T**	572	20	10	25	63	20	2.2	20	10	5	54	20	100*2	5	-40 to +85	-40 to +100
		SML-A12MT (J)	570	20	14	40	110	20	2.1	20	100	5	65	25	100*2	5	-30 to +85	-40 to +85
	Green	**SML-A12P8T**	560	20	3	6	16	20	2.2	20	10	5	54	20	100*2	5	-40 to +85	-40 to +100
		SMLA12ENT	527	5	56	140	220	5	3.0	5	100	5	68	20	100*2	5	-40 to +85	-40 to +100
	Blue	**SMLA12BN8T**	470	5	9	36	56	5	2.9	5	10	5	66	20	100*2	5	-40 to +85	-40 to +100
	White	**SMLA12WBN7W**	(x, y) (0.30, 0.30)	5	22	56	140	5	2.9	5	10	5	33	10	50*2	5	-40 to +85	-40 to +100
 2.8×1.2 (t=0.8)	White	**CSL0416WBCW**	(x, y) (0.30, 0.28)	20	1,400	2,200	3,600	20	3.2	20	50	5	117	30	100*2	5	-40 to +85	-40 to +100

可背面贴装型

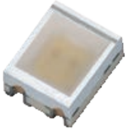
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)						
 (WB) **Mold type** 3.4×1.25 (t=1.1)	Red	**SML-811VT (A)**	630	10	11	22	45	10	2.0	10	100	5	62	25	100*2	5	-40 to +85	-40 to +100
		SML-811UT (A)	620	10	11	22	45	10	2.0	10	100	5	62	25	100*2	5	-40 to +85	-40 to +100
	Orange	**SML-811DT (A)**	605	10	11	22	45	10	2.0	10	100	5	62	25	100*2	5	-40 to +85	-40 to +100
	Yellow	**SML-811WT (A)**	590	10	14	28	56	10	2.0	10	100	5	62	25	100*2	5	-40 to +85	-40 to +100
	Yellow Green	**SML-812MT**	571	20	14	40	110	20	2.1	20	100	4	65	25	60*1	4	-30 to +85	-40 to +85
	Blue	**SML813BNT**	470	20	90	185	360	20	3.2	20	100	5	76	20	100*2	5	-40 to +85	-40 to +85
	White	**SML811WBCN1W**	(x, y) (0.272, 0.279)	2	9	22	45	2	2.8	2	10	5	35	10	50*2	5	-40 to +85	-40 to +100
 **2 Color type** 3.4×1.25 (t=1.1)	Yellow Green	**SML-822MV8W**	572	20	16	25	40	20	2.2	20	100	5	54	20	100*2	5	-40 to +85	-40 to +100
	Red		630	20	16	30	63	20	2.2	20	100	5	54	20	100*2	5	-40 to +85	-40 to +100
	Yellow Green	**SML-825MVW**	572	20	40	63	100	20	2.1	20	100	5	80	30	100*2	5	-40 to +85	-40 to +100
	Red		630	20	40	63	100	20	2.0	20	100	5	80	30	100*2	5	-40 to +85	-40 to +100

*1 Duty≦1/5, 200Hz　*2 Duty≦1/10, 1kHz　*3 Duty≦1/10, pulse width 10ms Max
*关于白色，用色度坐标(x, y)标记。

带镜头的表面贴装型

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)						
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 1.6×0.8 (t=1.24)	Red	CSL0903VT	630	20	560	800	1,400	20	2.1	20	10	12	87	35	100*2	12	–40 to +100	–40 to +100
		CSL0902VT			180	280	450											
		CSL0901VT			112	180	355						62.5	25				
		CSL0903UT	620	20	710	1,200	1,800	20	2.1	20	10	12	87	35	100*2	12	–40 to +100	–40 to +100
		CSL0902UT			224	355	560											
		CSL0901UT			140	280	450						62.5	25				
	Orange	CSL0903DT	605	20	900	1,400	2,240	20	2.1	20	10	12	87	35	100*2	12	–40 to +100	–40 to +100
		CSL0902DT			355	560	900											
		CSL0901DT			224	400	710						62.5	25				
	Yellow	CSL0903YT	590	20	560	800	1,400	20	2.1	20	10	12	87	35	100*2	12	–40 to +100	–40 to +100
		CSL0902YT			355	560	900											
		CSL0901YT			180	320	560						62.5	25				
		CSL0901WT	587	20	180	280	560	20	2.1	20	10	12	62.5	25	100*2	12	–40 to +100	–40 to +100
	Yellow Green	CSL0902MT	571	20	112	180	280	20	2.1	20	10	12	87	35	100*2	12	–40 to +100	–40 to +100
		CSL0901MT			56	100	180						62.5	25				
	Green	CSL0901PT	560	20	14	30	45	20	2.1	20	10	12	62.5	25	100*2	12	–40 to +100	–40 to +100
		CSL0902ET	527	20	710	1,100	1,800	20	3.4	20	10	5	95	25	100*2	5	–40 to +100	–40 to +100
		CSL0901ET		5	220	360	560	5	3.0	5			70	20				
	Blue	CSL0902BT	470	20	220	360	560	20	3.3	20	10	5	95	25	100*2	5	–40 to +100	–40 to +100
		CSL0901BT		5	36	56	90	5	2.9	5			68	20				
 **Reverse Mount Available** 3.2×1.6 (t=1.85)	Red	SML-S13VT	630	20	160	450	630	20	1.9	20	10	5	75	30	100*2	5	–40 to +85	–40 to +100
		SML-S13UT	620	20	400	700	1,600	20	1.9	20	10	5	75	30	100*2	5	–40 to +85	–40 to +100
	Orange	SML-S13DT	605	20	630	1,400	2,500	20	1.9	20	10	5	75	30	100*2	5	–40 to +85	–40 to +100
	Yellow	SML-S13YT	590	20	630	1,400	2,500	20	2.0	20	10	5	78	30	100*2	5	–40 to +85	–40 to +100
	Yellow Green	SML-S13MT	572	20	160	400	630	20	2.0	20	10	5	78	30	100*2	5	–40 to +85	–40 to +100
	Green	SML-S13PT	560	20	63	160	400	20	2.0	20	10	5	78	30	100*2	5	–40 to +85	–40 to +100
		SMLS14ENT	527	20	1,800	3,000	4,500	20	3.3	20	10	5	117	30	100*2	5	–40 to +85	–40 to +100
	Blue	SMLS14BNT	470	20	450	800	1,400	20	3.2	20	10	5	117	30	100*2	5	–40 to +85	–40 to +100
 2.9×2.4 (t=3.1)	Red	CSL0701UT	624	20	9,000	18,000	25,000	20	2.1	20	10	5	120	50	150*2	5	–40 to +85	–40 to +100
	Orange	CSL0701DT	605	20	20,000	35,000	50,000	20	2.1	20	10	5	120	50	150*2	5	–40 to +85	–40 to +100

双色型

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)						
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D	Forward Current I_F	Peak Forward Current I_{FP}	Reverse Voltage V_R	Operating Temperature Topr	Storage Temperature Tstg
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)	(mW)	(mA)	(mA)	(V)	(°C)	(°C)
 **PICOLED™-Duo** 1.0×1.0 (t=0.2)	Yellow Green	SML-P24MUW (R)	572	20	10	21	40	20	2.2	20	10	5	54	20	100*2	5	–40 to +85	–40 to +100
	Red		620	20	25	52	100	20	2.1	20	10	5	52	20	100*2	5	–40 to +85	–40 to +100
 1.6×0.8 (t=0.55)	Yellow Green	SML-D22MUW	570	5	6	10	16	5	2.0	5	10	5	67	25	100*2	5	–40 to +105	–40 to +110
	Red		620	5	10	16	25	5	1.9	5	10	5	65	25	100*2	5	–40 to +105	–40 to +110
	Yellow	SML-D22YVW	588	5	16	25	40	5	2.0	5	10	5	67	25	100*2	5	–40 to +105	–40 to +110
	Red		629	5	10	16	25	5	1.9	5	10	5	65	25	100*2	5	–40 to +105	–40 to +110
 1.3×1.5 (t=0.6)	Blue	SML522BUNW	470	5	9	22	36	5	2.9	5	10	5	66	20	60*2	5	–40 to +85	–40 to +100
	Red		624	5	10	21	40	5	1.9	5	10	5	50	20	60*2	5	–40 to +85	–40 to +100
	Yellow Green	SML-522MUW	570	20	14	40	71	20	2.1	20	100	4	52	20	60*2	4	–30 to +85	–40 to +85
	Red		630	20	22	63	110	20	1.9	20	100	4	50	20	60*2	4	–30 to +85	–40 to +85
	Yellow Green	SML-522MU8W	572	20	16	40	63	20	2.2	20	100	4	54	20	100*2	4	–40 to +85	–40 to +100
	Red		620	20	25	63	100	20	2.2	20	100	4	54	20	100*2	4	–40 to +85	–40 to +100
	Yellow Green	SML-522MD8W	572	20	10	25	40	20	2.2	20	100	4	54	20	100*2	4	–40 to +85	–40 to +100
	Orange		605	20	40	100	160	20	2.2	20	100	4	54	20	100*2	4	–40 to +85	–40 to +100
	Yellow Green	SML-522MY8W	572	20	16	40	63	20	2.2	20	100	4	54	20	100*2	4	–40 to +85	–40 to +100
	Yellow		590	20	40	63	160	20	2.2	20	100	4	54	20	100*2	4	–40 to +85	–40 to +100
 3.0×2.5 (t=1.3)	Yellow Green	SML-020MDT	570*3	20	9	20	45	20	2.2	20	100	4	60	25	60*1	4	–30 to +85	–40 to +85
	Orange		610*3	20	6	10	18	20	2.0	20	100	4	60	25	60*1	4	–30 to +85	–40 to +85
	Yellow Green	SML-020MVT	570*3	20	9	20	45	20	2.2	20	100	4	60	25	60*1	4	–30 to +85	–40 to +85
	Red		650*3	20	4	6	11	20	2.0	20	100	4	60	25	60*1	4	–30 to +85	–40 to +85
	Yellow Green	SML-020MYT	570*3	20	9	21	45	20	2.2	20	100	4	60	25	60*1	4	–30 to +85	–40 to +85
	Yellow		585*3	20	6	10	18	20	2.1	20	100	4	60	25	60*1	4	–30 to +85	–40 to +85

*1 Duty≦1/5, 200Hz　*2 Duty≦1/10, 1kHz　*3 峰值波长
注：PICOLED™ 是ROHM Co., Ltd.的商标或注册商标。

贴片LED

3色型

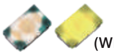
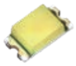
Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (µA)	V_R (V)						
 1.0×1.0 (t=0.2)	Red	SMLP34RGBN1W	624	5	36	80	140	5	2.1	5	10	5	35	10	50*1	5	–40 to +85	–40 to +100
	Green		527	5	140	220	360	5	3.1	5	10	5	35	10	50*1	5	–40 to +85	–40 to +100
	Blue		470	5	36	60	140	5	3.0	5	10	5	35	10	50*1	5	–40 to +85	–40 to +100
 1.5×1.0 (t=0.2)	Red	SMLP36RGBNW	624	5	36	80	140	5	1.9	5	10	5	35	10	50*1	5	–40 to +85	–40 to +100
	Green		527	5	140	220	360	5	2.9	5	10	5	35	10	50*1	5	–40 to +85	–40 to +100
	Blue		470	5	36	60	140	5	2.95	5	10	5	35	10	50*1	5	–40 to +85	–40 to +100
 1.8×1.6 (t=0.5)	Red	MSL0402RGBU*5	624	20	220	400	560	20	2.1	20	10	5	180*2*3	30	100	5	–40 to +85	–40 to +100
	Green		527	20	360	550	900	20	3.5	20	100	5	180*2*3	30	100	5	–40 to +85	–40 to +100
	Blue		470	20	90	180	360	20	3.3	20	100	5	180*2*3	30	100	5	–40 to +85	–40 to +100
 3.5×2.8 (t=0.6)	Red	SMLVN6RGB1U*5	624	20	450	700	1,100	20	2.1	20	10	5	400*2*3	50	100	5	–40 to +85	–40 to +100
	Green		527	20	710	1,200	1,800	20	3.3	20	—	—	400*2*3	40	100	—	–40 to +85	–40 to +100
	Blue		470	20	220	400	560	20	3.3	20	—	—	400*2*3	40	100	—	–40 to +85	–40 to +100
	Red	SMLVN6RGB1W*4	624	20	450	700	1,100	20	2.1	20	10	5	400*2*3	50	100	5	–40 to +85	–40 to +100
	Green		527	20	710	1,200	1,800	20	3.3	20	—	—	400*2*3	40	100	—	–40 to +85	–40 to +100
	Blue		470	20	220	400	560	20	3.3	20	—	—	400*2*3	40	100	—	–40 to +85	–40 to +100
	Red	SMLVN6RGB7W	624	20	280	500	900	20	2.1	20	10	5	180*2*3	30	100	5	–40 to +85	–40 to +100
	Green		527	20	560	1,000	1,800	20	3.5	20	—	—	180*2*3	30	100	—	–40 to +85	–40 to +100
	Blue		470	20	140	300	560	20	3.3	20	—	—	180*2*3	30	100	—	–40 to +85	–40 to +100

3色侧视型

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (µA)	V_R (V)						
 3 Colors Side View type 6.9×2.2 (t=2.15)	Red	MSL0104RGBU*5	624	20	450	700	1,100	20	2.1	20	10	5	400*2*3	50	100	5	–40 to +85	–40 to +100
	Green		527	20	710	1,200	1,800	20	3.3	20	—	—	400*2*3	40	100	—	–40 to +85	–40 to +100
	Blue		470	20	220	400	560	20	3.2	20	—	—	400*2*3	40	100	—	–40 to +85	–40 to +100
	Red	MSL0104RGBW*4	624	20	450	700	1,100	20	2.1	20	10	5	400*2*3	50	100	5	–40 to +85	–40 to +100
	Green		527	20	710	1,200	1,800	20	3.3	20	—	—	400*2*3	40	100	—	–40 to +85	–40 to +100
	Blue		470	20	220	400	560	20	3.2	20	—	—	400*2*3	40	100	—	–40 to +85	–40 to +100
 2.9×1.35 (t=1.0)	Red	MSL0601RGBU	624	20	600	700	830	20	2.1	20	10	5	300*2*3	40	100	5	–40 to +85	–40 to +100
	Green		527	20	1,100	1,250	1,500	20	3.3	20	10	5	300*2*3	30	100	5	–40 to +85	–40 to +100
	Blue		470	20	290	360	500	20	3.2	20	10	5	300*2*3	30	100	5	–40 to +85	–40 to +100

*1 Duty≦1/20, 1ms
*2 三色亮灯时总允许损耗(DC驱动，三色同时亮灯时绝对最大额定值为分别亮灯时的30%以下)
*3 50mm×50mm、基材：FR4：t=1.6mm　铜箔：t=0.07mm　*4 环氧树脂
*5 硅树脂

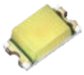
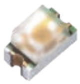
低电流型

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)					
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (µA)	V_R (V)						
 PICOLED™-eco 1.0×0.6 (t=0.2)	Red	SML-P11VT (R)	626	1	2	4	6	1	1.8	1	10	5	50	20	100*1	5	–40 to +85	–40 to +100
		SML-P11UT (R)	621	1	1	3	6	1	1.8	1	10	5	50	20	100*1	5	–40 to +85	–40 to +100
	Orange	SML-P11DT (R)	605	1	4	7	16	1	1.9	1	10	5	52	20	100*1	5	–40 to +85	–40 to +100
	Yellow	SML-P11YT (R)	586	1	4	8	16	1	1.9	1	10	5	52	20	100*1	5	–40 to +85	–40 to +100
	Yellow Green	SML-P11MT (R)	569	1	1	2	4	1	1.9	1	10	5	54	20	100*1	5	–40 to +85	–40 to +100
 (WB) PICOLED™ 1.0×0.6 (t=0.2)	Green	SMLP14ECNW	527	5	56	110	220	5	3.0	5	100	5	34	10	50*1	5	–40 to +85	–40 to +100
	Blue	SMLP14BCNW	470	5	9	25	56	5	2.9	5	100	5	33	10	50*1	5	–40 to +85	–40 to +100
	White	SMLP14WBCN1W	(x, y) (0.30, 0.30)	5	90	180	360	5	2.9	5	100	5	33	10	50*1	5	–40 to +85	–40 to +100
  (WB) 1.6×0.8 (t=0.55)	Red	New CSL1901VW	630	2	1.6	4.8	6.3	2	1.8	2	10	5	44	20	100*1	5	–40 to +85	–40 to +100
		New CSL1901UW	620	2	2.5	6	10	2	1.8	2	10	5	44	20	100*1	5	–40 to +85	–40 to +100
	Orange	New CSL1901DW	605	2	6.3	9.4	25	2	1.8	2	10	5	44	20	100*1	5	–40 to +85	–40 to +100
	Yellow	New CSL1901YW	590	2	6.3	9.4	25	2	1.8	2	10	5	44	20	100*1	5	–40 to +85	–40 to +100
	Yellow Green	New CSL1901MW	570	2	1	3	4	2	1.8	2	10	5	44	20	100*1	5	–40 to +85	–40 to +100
	Green	SMLD12EN1W	527	5	56	140	220	5	3.0	5	10	5	70	20	100*1	5	–40 to +100	–40 to +100
	Blue Green	SMLD12E2N1W	505	5	56	120	140	5	2.9	5	10	5	66	20	100*1	5	–40 to +100	–40 to +100
		SMLD12E3N1W	496	5	56	85	140	5	2.9	5	10	5	66	20	100*1	5	–40 to +100	–40 to +100
	Blue	SMLD12BN1W	470	5	14	40	56	5	2.9	5	10	5	66	20	100*1	5	–40 to +100	–40 to +100
	White	SMLD12WBN1W	(x, y) (0.295, 0.280)	5	56	120	220	5	2.9	5	10	5	66	20	100*1	5	–40 to +100	–40 to +100
 1.6×0.8 (t=0.55)	Yellow Green	SML-D22MUW	570	5	6	10	16	5	2.0	5	10	5	67	25	100*1	5	-40 to +105	-40 to +110
	Red		620	5	10	16	25	5	1.9	5	10	5	65	25	100*1	5	-40 to +105	-40 to +110
	Yellow	SML-D22YVW	588	5	16	25	40	5	2.0	5	10	5	67	25	100*1	5	-40 to +105	-40 to +110
	Red		629	5	10	16	25	5	1.9	5	10	5	65	25	100*1	5	-40 to +105	-40 to +110
 1.3×1.5 (t=0.6)	Blue	SML522BUNW	470	5	9	22	36	5	2.9	5	10	5	66	20	60*1	5	-40 to +85	-40 to +100
	Red		624	5	10	21	40	5	1.9	5	10	5	50	20	60*1	5	-40 to +85	-40 to +100

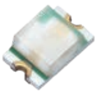
*1 Duty≦1/10, 1kHz
*关于白色，用色度坐标(x, y)标记。
注：PICOLED™ 是ROHM Co., Ltd.的商标或注册商标。

贴片LED(车载适用品)

车载适用型 模具型0603(1608M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25˚C)										Absolute Maximum Ratings (T_a=25˚C)						Automotive Grade AEC-Q101/ AEC-Q102
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (˚C)	Storage Temperature Tstg (˚C)	
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)							
  (WB) 1.6×0.8 (t=0.55)	Red	SML-D15VW (C)	630	20	71	90	112	20	2.0	20	10	12	84	35	100^{*1}	12	−40 to +100	−40 to +100	YES
		SML-D13VW (C)			35.5	55	90						72	30					YES
		SML-D12V8W (C)			16	40	100		2.2			5	54	20		5			YES
		SML-D15UW (C)	620	20	90	112	140	20	2.0	20	10	12	84	35	100^{*1}	12	−40 to +100	−40 to +100	YES
		SML-D13UW (C)			56	85							72	30					YES
		SML-D12U8W (C)			25	63	160		2.2			5	54	20		5			YES
		SML-D15U2W (C)	615	20	112	140	180	20	2.0	20	10	12	84	35	100^{*1}	12	−40 to +100	−40 to +100	YES
	Orange	SML-D15DW (C)	605	20	180	224	280	20	2.0	20	10	12	84	35	100^{*1}	12	−40 to +100	−40 to +100	YES
		SML-D13DW (C)			71	120	180						72	30					YES
		SML-D12D8W (C)			40	100	250		2.2			5	54	20		5			YES
	Yellow	SML-D15YW (C)	590	20	180	224	280	20	2.1	20	10	12	87	35	100^{*1}	12	−40 to +100	−40 to +100	YES
		SML-D12Y8W (C)			25	63	160		2.2			5	54	20		5			YES
		SML-D12W8W (C)	587.5	2	4.5	7.1	11.2	2	2.0	2	10	12	52	20	100^{*1}	12	−40 to +100	−40 to +100	YES
		SML-D13WW (C)	587	20	71	110	180	20	2.1	20	10	12	75	30	100^{*1}	12	−40 to +100	−40 to +100	YES
	Yellow Green	SML-D12M8W (C)	572	20	10	25	63	20	2.2	20	10	5	54	20	100^{*1}	5	−40 to +100	−40 to +100	YES
		SML-D15MW (C)	571	20	56	71	90	20	2.1	20	10	12	87	35	100^{*1}	12	−40 to +100	−40 to +100	YES
		SML-D13MW (C)			28	45	71						75	30					YES
	Green	SML-D13FW (C)	564	20	14	22	35.5	20	2.1	20	10	12	75	30	100^{*1}	12	−40 to +100	−40 to +100	YES
		SML-D12P8W (C)	560	20	2.5	6.3	16	20	2.2	20	10	5	54	20	100^{*1}	5	−40 to +100	−40 to +100	YES
	Blue	SMLD12BN1W (C)	470	5	14	40	56	5	2.9	5	10	12	66	20	100^{*1}	12	−40 to +100	−40 to +100	YES
	White	SMLD12WBN1W (C)	(x, y) (0.295, 0.28)	5	56	120	220	5	2.9	5	10	12	66	20	100^{*1}	12	−40 to +100	−40 to +100	YES
 1.6×0.8 (t=1.06)	Green	CSL1001ET (C)	527	5	90	140	224	5	3.0	5	10	5	35	10	50^{*1}	5	−40 to +100	−40 to +100	YES
	Blue	CSL1001BT (C)	470	1	4	6	8	1	2.8	1	10	5	33	10	50^{*1}	5	−40 to +100	−40 to +100	YES

车载适用型 模具型0805(20125M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25˚C)										Absolute Maximum Ratings (T_a=25˚C)						Automotive Grade AEC-Q101/ AEC-Q102
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (˚C)	Storage Temperature Tstg (˚C)	
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)							
 2.0×1.25 (t=0.8)	Red	SML-H12V8T (C)	630	20	16	25	63	20	2.2	20	10	5	54	20	100^{*2}	5	−40 to +85	−40 to +100	YES
		SML-H12U8T (C)	620	20	25	40	100	20	2.2	20	10	5	54	20	100^{*2}	5	−40 to +85	−40 to +100	YES
	Orange	SML-H12D8T (C)	605	20	40	63	160	20	2.2	20	10	5	54	20	100^{*2}	5	−40 to +85	−40 to +100	YES
	Yellow	SML-H12Y8T (C)	590	20	40	63	160	20	2.2	20	10	5	54	20	100^{*2}	5	−40 to +85	−40 to +100	YES
	Yellow Green	SML-H12M8T (C)	572	20	10	25	40	20	2.2	20	10	5	54	20	100^{*2}	5	−40 to +85	−40 to +100	YES
	Green	SML-H12P8T (C)	560	20	2.5	4	10	20	2.2	20	10	5	54	20	100^{*2}	5	−40 to +85	−40 to +100	YES

车载适用型 折射型0603(1608M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25˚C)										Absolute Maximum Ratings (T_a=25˚C)						Automotive Grade AEC-Q101/ AEC-Q102
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (˚C)	Storage Temperature Tstg (˚C)	
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)							
 1.6×0.8 (t=0.55)	White	New CSL1101WBAW (C)	(x, y) (0.282, 0.249)	5	90	155	220	5	2.9	5	10	5	68	20	100^{*1}	5	−40 to +110	−40 to +110	YES
		New CSL1101WBBW (C)	(x, y) (0.261, 0.261)	5	90	155	220	5	2.9	5	10	5	68	20	100^{*1}	5	−40 to +110	−40 to +110	YES
		New CSL1101WBCW (C)	(x, y) (0.303, 0.294)	5	90	155	220	5	2.9	5	10	5	68	20	100^{*1}	5	−40 to +110	−40 to +110	YES
		New CSL1101WBDW (C)	(x, y) (0.284, 0.303)	5	90	155	220	5	2.9	5	10	5	68	20	100^{*1}	5	−40 to +110	−40 to +110	YES
		New CSL1102WBAW (C)	(x, y) (0.282, 0.249)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100^{*1}	5	−40 to +110	−40 to +110	YES
		New CSL1102WBBW (C)	(x, y) (0.261, 0.261)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100^{*1}	5	−40 to +110	−40 to +110	YES
		New CSL1102WBCW (C)	(x, y) (0.303, 0.294)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100^{*1}	5	−40 to +110	−40 to +110	YES
		New CSL1102WBDW (C)	(x, y) (0.284, 0.303)	20	710	1,000	1,400	20	3.2	20	10	5	152	40	100^{*1}	5	−40 to +110	−40 to +110	YES

车载适用型 折射型0805(201258M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25˚C)										Absolute Maximum Ratings (T_a=25˚C)						Automotive Grade AEC-Q101/ AEC-Q102
			Dominant Wavelength λ_D/ Chromaticity Coordinates (x, y)		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (˚C)	Storage Temperature Tstg (˚C)	
			Typ* (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)							
 (WB) 2.0×1.25 (t=0.8)	Green	SMLMN2ECT (C)	527	5	56	140	360	5	3.0	5	10	12	70	20	100^{*2}	12	−40 to +100	−40 to +100	YES
	Blue	SMLMN2BCT (C)	470	5	14	36	90	5	2.9	5	10	12	68	20	100^{*2}	12	−40 to +100	−40 to +100	YES
	White	SMLMN2WB1CW (C)	(x, y) (0.30, 0.28)	5	56	140	220	5	2.9	5	10	12	68	20	100^{*2}	12	−40 to +100	−40 to +100	YES

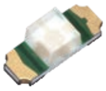
*1 Duty≦1/10, 1kHz　*2 Duty≦1/10, 1kHz
*关于白色，用色度坐标(x, y)标记。

贴片LED(车载适用品)

车载适用型 折射型PLCC(3528M)

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)						Automotive Grade AEC-Q101/AEC-Q102
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)							
 3.5×2.8 (t=1.9)	Red	SML-Z14VT (C)	630	20	56	112	180	20	1.9	20	10	12	168	70	200[*2]	12	−40 to +100	−40 to +100	YES
		SML-Z14UT (C)	620	20	112	224	355	20	1.9	20	10	12	168	70	200[*2]	12	−40 to +100	−40 to +100	YES
	Orange	SML-Z14DT (C)	605	20	140	280	450	20	1.9	20	10	12	168	70	200[*2]	12	−40 to +100	−40 to +100	YES
	Yellow	SML-Z14YT (C)	589	20	140	280	450	20	2.0	20	10	12	175	70	200[*2]	12	−40 to +100	−40 to +100	YES
	Yellow Green	SML-Z14MT (C)	571	20	45	90	140	20	2.0	20	10	12	175	70	200[*2]	12	−40 to +100	−40 to +100	YES
	Green	SML-Z14FT (C)	564	20	22.4	45	71	20	2.0	20	10	12	175	70	200[*2]	12	−40 to +100	−40 to +100	YES
		SML-Z14PT (C)	560	20	11.2	22.4	35.5	20	2.0	20	10	12	175	70	200[*2]	12	−40 to +100	−40 to +100	YES
	Blue Green	SMLZ24E2N3T (C)	505	20	900	1,140	1,800	20	3.2	20	—	—	152	40	100[*2]	—	−40 to +100	−40 to +100	YES
	Blue	SMLZ24BN3T (C)	470	20	220	300	450	20	3.3	20	—	—	114	30	100[*2]	—	−40 to +100	−40 to +100	YES

车载适用型 可背面贴装型

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)						Automotive Grade AEC-Q101/AEC-Q102
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)							
 3.4×1.25 (t=1.1)	Red	SML-811VT (C)	630	10	11.2	22.4	45	10	1.95	10	100	5	62	25	100[*2]	5	−40 to +85	−40 to +100	YES
		SML-811UT (C)	620	10	11.2	22.4	45	10	1.95	10	100	5	62	25	100[*2]	5	−40 to +85	−40 to +100	YES
	Orange	SML-811DT (C)	605	10	11	22	45	10	2.0	10	100	5	62	25	100[*2]	5	−40 to +85	−40 to +100	YES
	Yellow	SML-811WT (C)	590	10	14	28	56	10	1.95	10	100	5	62	25	100[*2]	5	−40 to +85	−40 to +100	YES

车载适用型 带镜头的表面贴装型

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)						Automotive Grade AEC-Q101/AEC-Q102
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)							
 1.6×0.8 (t=1.24)	Red	CSL0903VT (C)	630	20	560	800	1,120	20	2.1	20	10	12	87	35	100[*1]	12	−40 to +110	−40 to +110	YES
		CSL0902VT (C)			180	280	355												YES
		CSL0901VT (C)			140	180	280						75	30					YES
		CSL0903UT (C)	620	20	900	1,200	1,800	20	2.1	20	10	12	87	35	100[*1]	12	−40 to +110	−40 to +110	YES
		CSL0902UT (C)			280	450	560												YES
		CSL0901UT (C)			180	280	355						75	30					YES
	Orange	CSL0903DT (C)	605	20	900	1,400	1,800	20	2.1	20	10	12	87	35	100[*1]	12	−40 to +110	−40 to +110	YES
		CSL0902DT (C)			450	710	900												YES
		CSL0901DT (C)			280	400	560						75	30					YES
	Yellow	CSL0903YT (C)	590	20	560	800	1,120	20	2.1	20	10	12	87	35	100[*1]	12	−40 to +110	−40 to +110	YES
		CSL0902YT (C)			355	560	710												YES
		CSL0901YT (C)			224	320	450						75	30					YES
		CSL0901WT (C)	587	20	180	280	355	20	2.1	20	10	12	75	30	100[*1]	12	−40 to +110	−40 to +110	YES
	Yellow Green	CSL0901MT (C)	571	20	90	120	180	20	2.1	20	10	12	75	30	100[*1]	12	−40 to +110	−40 to +110	YES
		CSL0902MT (C)	570	20	112	150	224	20	2.1	20	10	12	87	35	100[*1]	12	−40 to +110	−40 to +110	YES
	Green	CSL0901PT (C)	560	20	14	25	35.5	20	2.1	20	10	12	75	30	100[*1]	12	−40 to +110	−40 to +110	YES
		CSL0902ET (C)	527	20	900	1,200	1,800	20	3.4	20	10	5	114	30	100[*1]	5	−40 to +110	−40 to +110	YES
		CSL0901ET (C)		5	220	360	450	5	3.0	5			70	20					YES
	Blue	CSL0902BT (C)	470	20	220	360	450	20	3.3	20	10	5	114	30	100[*1]	5	−40 to +110	−40 to +110	YES
		CSL0901BT (C)		5	45	56	90	5	2.9	5			68	20					YES

车载适用型 3色型

Package (mm)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25°C)						Automotive Grade AEC-Q101/AEC-Q102
			Dominant Wavelength λ_D		Luminous Intensity I_V				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	
			Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Typ (V)	I_F (mA)	Max (μA)	V_R (V)							
 3.5×2.8 (t=0.6)	Red	New SMLVN6RGBFU1 (C)	621	20	600	750	900	20	2.1	20	10	5	400	50	100	5	−40 to +100	−40 to +100	YES
	Green		525	20	1,440	1,800	2,160	20	3.3	20	—	—	400	40	100	—	−40 to +100	−40 to +100	
	Blue		470	20	320	430	540	20	3.3	20	—	—	400	40	100	—	−40 to +100	−40 to +100	

*1 Duty≦1/10, 1kHz　*2 Duty≦1/10, 1kHz

贴片LED

●品名构成说明

〈贴片LED〉

[系列名称:SML或SCM]

■元件发光颜色为蓝(B)、绿(E)、白(WB)、RGB、2色蓝/红以外颜色时

元件分类代码　特别记载　特别分类代码

S M L — D 1 2 V □ 8 □ W T 8 6 □ □ □ □

系列名称　封装类型　元件类型　颜色　树脂颜色　引脚形状及卷带规格　光强等级

系列名称

SML	chip LED series
SCM	chip LED series

封装类型

P1	1.0×0.6 t=0.2mm
E1	1.6×0.8 t=0.36mm
D1/D2	1.6×0.8 t=0.55mm
H1	2.0×1.25 t=0.8mm
M1	2.0×1.25 t=0.8mm
01/02	3.0×2.0 t=1.3mm
Z1/Y1	3.5×2.8 t=1.9mm
A1	1.6×1.15 t=0.55mm
81/82	3.4×1.25 t=1.1mm
S1	3.2×1.6 t=1.85mm
P2	1.0×1.0 t=0.2mm
52	1.5×1.3 t=0.6mm
01	3.0×1.5 t=2.2mm

元件类型

0	Low luminous intensity type
1	Low current type
2	High luminous intensity type
3	Ultra high luminous intensity type
4	
5	
8	

颜色

L	Red	M	Yellow green
V	Red	F	Green
U	Red	P	Green
U2	Red	MV	Yellow green/ Red
D	Orange	MU	Yellow green/ Red
Y3	Yellow	MD	Yellow green/ Orange
Y	Yellow	MY	Yellow green/ Yellow
W	Yellow	YV	Yellow/Red
Y2	Yellow	R	Infrared
M2	Yellow green	T	Phototransistor

树脂颜色

T	Transparent colorless
W	Milky white
B	Black

引脚形状及卷带规格

T86	Cathode at sproket hole side (the top)

〈in case of S1 series〉

T86	Cathode at sproket hole side (the back)
T68	Cathode at sproket hole side (the top)

光强等级

请参考规格书

[系列名称:SML或SCM]

■元件发光颜色为蓝(B)、绿(E)、白(WB)、RGB、2色蓝/红时

元件分类代码　特别记载　色度(仅PB、SB、E2、E3、白色、RGB时)或波长分类(仅SMLD12E2/D12E3)　特别分类代码

S M L E N 3 W B C 8 □ W 1 □ □ □ □ □ □

系列名称　封装类型　元件类型　颜色　树脂颜色　引脚形状及卷带规格　光强等级

系列名称

SML	chip LED series
SCM	chip LED series

封装类型

P1	1.0×0.6 t=0.2mm
EN	1.6×0.8 t=0.36mm
D1	1.6×0.8 t=0.55mm
MN/M2	2.0×1.25 t=0.8mm
Z2/ZN	3.5×2.8 t=1.9mm
A1	1.6×1.15 t=0.55mm
81	3.4×1.25 t=1.1mm
S1	3.2×1.6 t=1.85mm
52	1.5×1.3 t=0.6mm
P34	1.0×1.0 t=0.2mm
P36	1.5×1.0 t=0.2mm
VN	3.5×2.8 t=0.6mm
01	3.0×2.0 t=1.3mm
K1/K2	4.5×2.0 t=0.6mm

元件类型

2	High luminous intensity type
3	Ultra high luminous intensity type
4	
6	
8	

颜色

E	Green
E2/E3	Blue Green
B	Blue
PB	Green
SB	Sapphire blue
WB	White
BU	Blue/Red
RGB	Red/Green/Blue

树脂颜色

Resin color

T	Transparent Colorless
W	Milky white

Resin
(in case of VN6 series)

U	Silicone
W	Epoxy

引脚形状及卷带规格

T86	Cathode at sproket hole side (the top)

〈白色、RGB时〉

1	Cathode at sproket hole side (the top)
3	Cathode at sproket hole side (the top 2mm pitch)

〈仅S1系列、81系列时〉

T86	Cathode at sproket hole side (the back)
T68	Cathode at sproket hole side (the top)

*但是，81系列没有“T68”。

光强等级

请参考规格书

[系列名称:CSL]

元件分类代码　特别记载　色度(仅白色时)　特别分类代码

C S L 0 7 0 1 D □ □ □ T 5 □ □ □ □ □ □

系列名称　封装类型　颜色　树脂颜色　引脚形状及卷带规格　光强等级

系列名称

CSL	chip LED series

封装类型

04	2.8×1.15 t=0.8mm
07	2.9×2.4 t=3.1mm
09	1.6×0.8 t=1.24mm
10	1.6×0.8 t=1.06mm
11	1.6×0.8 t=0.55mm
19	1.6×0.8 t=0.55mm

颜色

V	Red	M	Yellow green
U	Red	P	Green
D	Orange	E	Green
Y	Yellow	B	Blue
W	Yellow	WB	White
		SB	Sapphire blue

树脂颜色

T	Transparent Colorless
W	Milky white

引脚形状及卷带规格

1	Cathode at sproket hole side (the top)
5	Cathode at sproket hole side (big reel)

光强等级

请参考规格书

[系列名称:MSL]

元件分类代码　特别记载　色度(仅RGB时) *“MSL0601RGBU”不适用　特别分类代码

M S L 0 1 0 4 R G B □ U 1 □ □ □ □ □ □

系列名称　封装类型　颜色　树脂颜色　引脚形状及卷带规格　光强等级

系列名称

MSL	Multi color series

封装类型

01	6.9×2.2 t=2.15mm
06	2.9×1.35 t=1.0mm

颜色

RGB	Red/Green/Blue

树脂颜色

U	Silicone
W	Epoxy

引脚形状及卷带规格

1	Cathode at sproket hole side (the top)

光强等级

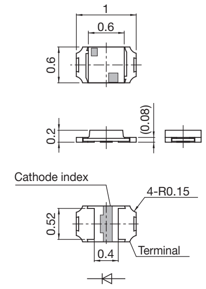
请参考规格书

贴片LED

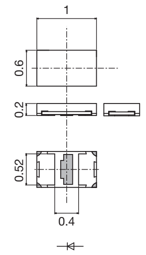
●外形尺寸图 (单位:mm)

〈模具类型〉

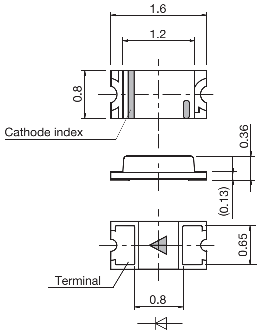
• SML-P1 series (PICOLED™)



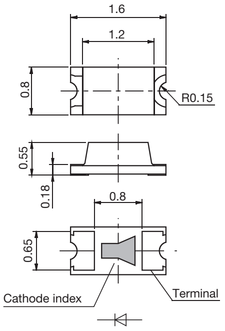
• SMLP14 series (PICOLED™)



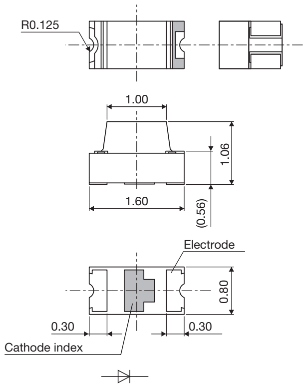
• SML-E1/EN series



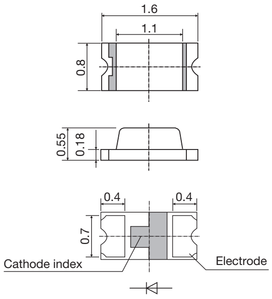
• SML-D1 series



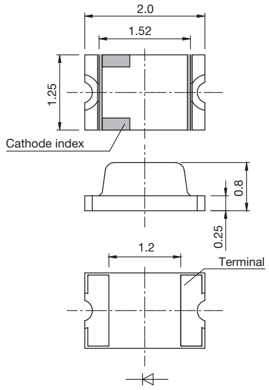
• CSL10 series



• CSL19 series



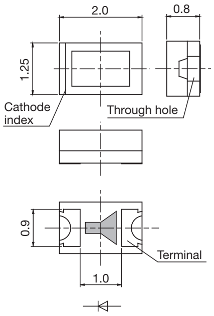
• SML-H1 series



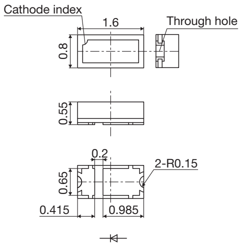
注 : PICOLED™是ROHM Co., Ltd的商标或注册商标。

〈折射型〉

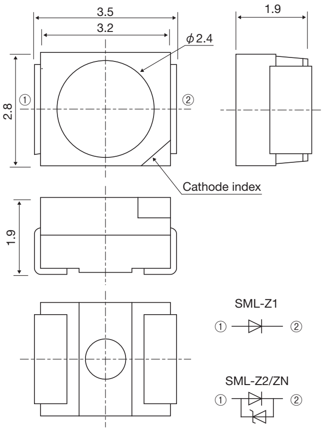
• SML-M1/MN series



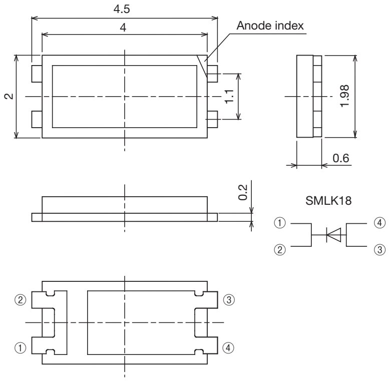
• CSL11 series



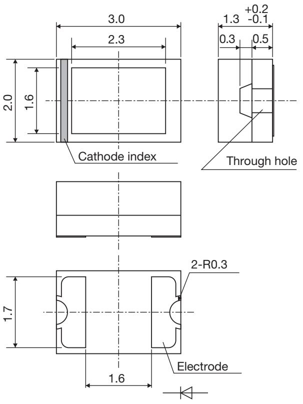
• SML-Z1/Z2/ZN series



• SMLK1 series



• SML-01 series

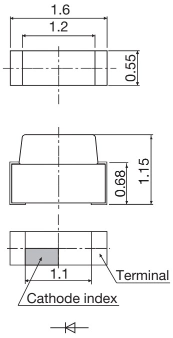


*详情请参考规格书。

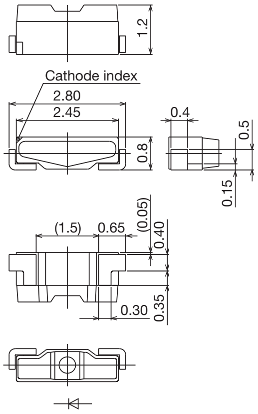
●外形尺寸图 (单位:mm)

〈侧视型〉

• SML-A1 series

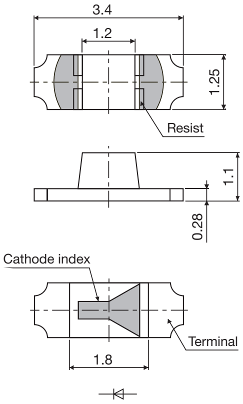


• CSL04 series

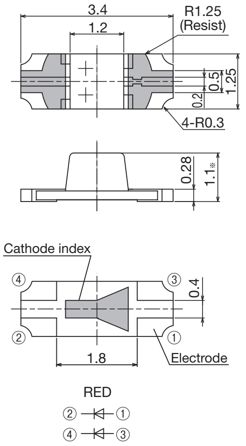


〈可背面安装型〉

• SML-81 series



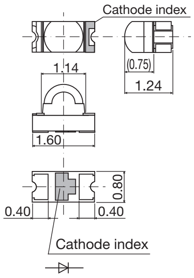
• SML-82 series



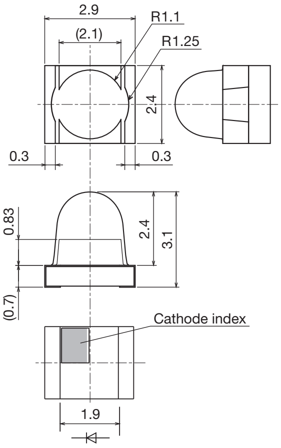
RED
② ⊣◁– ①
④ ⊣◁– ③
YELLOW GREEN

〈表面贴装透镜型〉

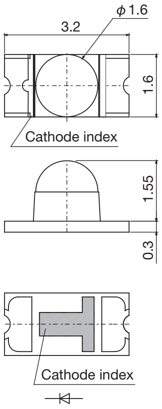
• CSL09 series



• CSL07 series



• SML-S1 series



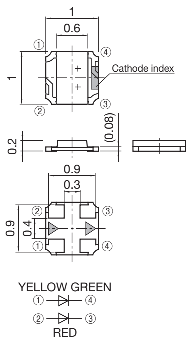
*详情请参考规格书。

贴片LED

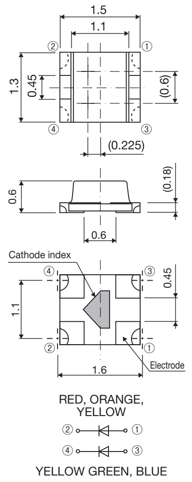
●外形尺寸图 (单位:mm)

〈双色型〉

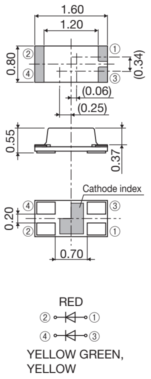
- **SMLP2 series (PICOLED™-Duo)**



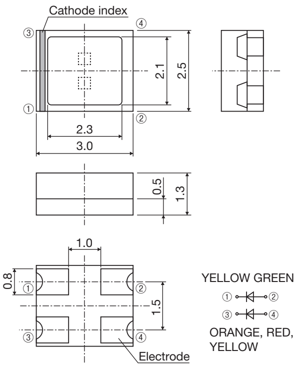
- **SML-52 series**



- **SML-D2 series**

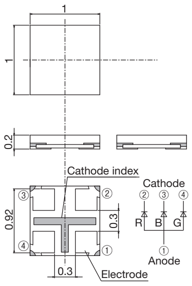


- **SML-02M series**

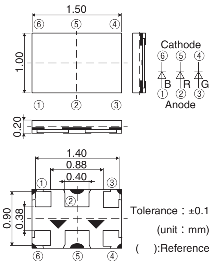


〈3色型〉

- **SMLP34 series (PICOLED™-RGB)**



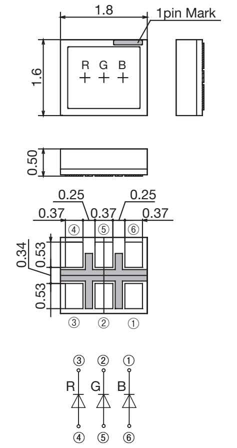
- **SMLP36 series (PICOLED™-RGB)**



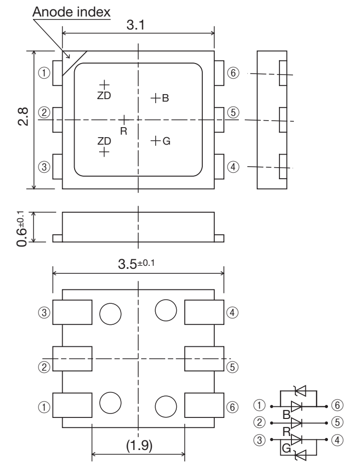
注 : PICOLED™是ROHM Co., Ltd的商标或注册商标。

〈3色型〉

- **MSL04 series**

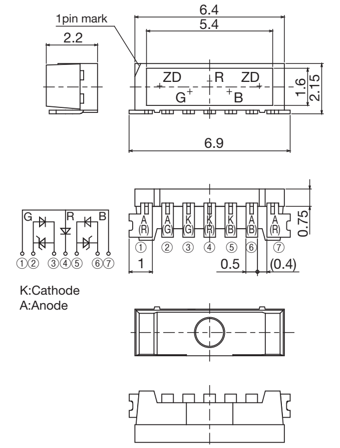


- **SMLVN6 series**

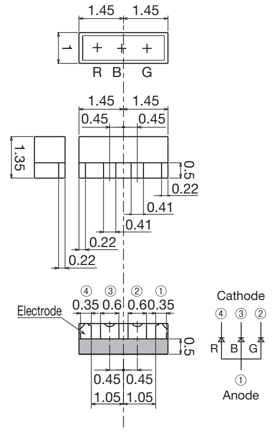


〈3色侧视型〉

- **MSL01 series**



- **MSL06 series**



*详情请参考规格书。

插件LED

罗姆提供种类繁多的插件LED，伴随自动化安装的发展，以直接安装于基板的LED为首，
提供用于户外显示器等设备的高亮度插件LED系列，其用途广泛。

红色(V, U)光强一览表

Shape	Viewing Angle (2θ1/2)	Resin Color	Luminous intensity (mcd) / I_F (mA)	3.6 to 5.6	5.6 to 9	9 to 16	16 to 25	25 to 40	40 to 63	63 to 100	100 to 160	160 to 250	250 to 400	400 to 630	630 to 680	680 to 1000	1000 to 1500	1500 to 2200	2200 to 3300	3300 to 4700	4700 to 6800	6800 to 10000	10000 to 15000
ϕ3 Circular type	40°	Transparent Colored	20							SLI-343URC	SLI-343URC	SLI-343URC	SLI-343URC	SLI-343URC	SLI-343URC								
											SLI-343V8RC	SLI-343V8RC	SLI-343V8RC	SLI-343V8RC	SLI-343V8RC								
											SLI-343U8RC	SLI-343U8RC	SLI-343U8RC	SLI-343U8RC	SLI-343U8RC								
								SLI-343URC (W)	SLI-343URC (W)	SLI-343URC (W)	SLI-343URC (W)	SLI-343URC (W)	SLI-343URC (W)										
			10			SLR-343VC	SLR-343VC	SLR-343VC	SLR-343VC	SLR-343VC													
		Diffused Colored	20							SLI-343UR	SLI-343UR	SLI-343UR	SLI-343UR	SLI-343UR	SLI-343UR								
											SLI-343V8R	SLI-343V8R	SLI-343V8R	SLI-343V8R									
											SLI-343U8R	SLI-343U8R	SLI-343U8R	SLI-343U8R									
								SLI-343UR (W)	SLI-343UR (W)	SLI-343UR (W)	SLI-343UR (W)	SLI-343UR (W)	SLI-343UR (W)										
			10		SLR-343VR	SLR-343VR	SLR-343VR	SLR-343VR	SLR-343VR														
	85°	Transparent Colored	10	SLR-332VC	SLR-332VC	SLR-332VC	SLR-332VC	SLR-332VC															
		Diffused Colored		SLR-332VR	SLR-332VR	SLR-332VR	SLR-332VR	SLR-332VR															
ϕ3 Circular type (Direct mount 5mm pitch type)	40°	Transparent Colored	20					SLI-325URC (W)	SLI-325URC (W)	SLI-325URC (W)	SLI-325URC (W)	SLI-325URC (W)	SLI-325URC (W)										
			10		SLR-325VC	SLR-325VC	SLR-325VC	SLR-325VC	SLR-325VC														
		Diffused Colored	20					SLI-325UR (W)	SLI-325UR (W)	SLI-325UR (W)	SLI-325UR (W)	SLI-325UR (W)	SLI-325UR (W)										
			10	SLR-325VR	SLR-325VR	SLR-325VR	SLR-325VR	SLR-325VR															
ϕ3 Flat disc type	35°	Transparent Colored	10		SLR-322VC	SLR-322VC	SLR-322VC	SLR-322VC	SLR-322VC														
	50°	Diffused Colored		SLR-322VR	SLR-322VR	SLR-322VR	SLR-322VR	SLR-322VR	SLR-322VR														
ϕ4 Oval type	140°	Diffused Colored	20									SLI-430U2R	SLI-430U2R	SLI-430U2R	SLI-430U2R								
ϕ5 Circular type	10°	Transparent Colorless	20															SLI-580UT	SLI-580UT	SLI-580UT	SLI-580UT	SLI-580UT	SLI-580UT
	20°																		SLI-570U2T	SLI-570U2T	SLI-570U2T	SLI-570U2T	
																SLI-570UT	SLI-570UT	SLI-570UT	SLI-570UT	SLI-570UT	SLI-570UT		
	40°												SLI-560UT	SLI-560UT	SLI-560UT	SLI-560UT	SLI-560UT	SLI-560UT					
		Transparent Colored	10			SLR-56VC	SLR-56VC	SLR-56VC	SLR-56VC	SLR-56VC													
		Diffused Colored		SLR-56VR	SLR-56VR	SLR-56VR	SLR-56VR	SLR-56VR															

注：规格书所示光强包含±10%误差。

橙色(D)光强一览表

Shape	Viewing Angle (2θ1/2)	Resin Color	Luminous intensity (mcd) / I_F (mA)	2.2 to 3.6	3.6 to 5.6	5.6 to 9	9 to 18	18 to 28	28 to 45	45 to 56	56 to 90	90 to 220	220 to 280	280 to 330	330 to 710	710 to 900	900 to 1000	1000 to 1350	1350 to 1500	1500 to 1650	1650 to 3000	3000 to 5200	5200 to 7500
ϕ3 Circular type	40°	Transparent Colored	20									SLI-343DC	SLI-343DC	SLI-343DC	SLI-343DC								
															SLI-343D8C	SLI-343D8C	SLI-343D8C	SLI-343D8C	SLI-343D8C				
											SLI-343DC (W)	SLI-343DC (W)	SLI-343DC (W)	SLI-343DC (W)	SLI-343DC (W)								
			10				SLR-343DC	SLR-343DC	SLR-343DC	SLR-343DC	SLR-343DC												
		Diffused Colored	20									SLI-343DU	SLI-343DU	SLI-343DU	SLI-343DU								
													SLI-343D8U	SLI-343D8U	SLI-343D8U	SLI-343D8U	SLI-343D8U						
											SLI-343DU (W)	SLI-343DU (W)	SLI-343DU (W)	SLI-343DU (W)	SLI-343DU (W)								
			10			SLR-343DU	SLR-343DU	SLR-343DU	SLR-343DU														
	85°	Transparent Colored	10			SLR-332DC	SLR-332DC	SLR-332DC	SLR-332DC														
		Diffused Colored			SLR-332DU	SLR-332DU	SLR-332DU	SLR-332DU															
ϕ3 Circular type (Direct mount 5mm pitch type)	40°	Transparent Colored	20						SLI-325DC (W)	SLI-325DC (W)	SLI-325DC (W)	SLI-325DC (W)	SLI-325DC (W)										
			10			SLR-325DC	SLR-325DC	SLR-325DC	SLR-325DC														
		Diffused Colored	20						SLI-325DU (W)	SLI-325DU (W)	SLI-325DU (W)	SLI-325DU (W)	SLI-325DU (W)										
			10		SLR-325DU	SLR-325DU	SLR-325DU	SLR-325DU															
ϕ3 Flat disc type	35°	Transparent Colored	10			SLR-322DC	SLR-322DC	SLR-322DC	SLR-322DC														
	50°	Diffused Colored		SLR-322DU	SLR-322DU	SLR-322DU	SLR-322DU																
ϕ4 Oval type	140°	Diffused Colored	20										SLI-430DU	SLI-430DU	SLI-430DU								
ϕ5 Circular type	10°	Transparent Colorless	20																SLI-580DT	SLI-580DT	SLI-580DT	SLI-580DT	SLI-580DT
	20°																SLI-570DT	SLI-570DT	SLI-570DT	SLI-570DT	SLI-570DT	SLI-570DT	
	40°													SLI-560DT	SLI-560DT	SLI-560DT	SLI-560DT	SLI-560DT	SLI-560DT	SLI-560DT			
		Transparent Colored	10				SLR-56DC	SLR-56DC	SLR-56DC	SLR-56DC	SLR-56DC												
		Diffused Colored			SLR-56DU	SLR-56DU	SLR-56DU	SLR-56DU															

注：规格书所示光强包含±10%误差。

黄色(Y)光强一览表

Shape	Viewing Angle (2θ1/2)	Resin Color	Luminous intensity (mcd) / I_F (mA)	2.2 to 3.6	3.6 to 5.6	5.6 to 9	9 to 18	18 to 28	28 to 45	45 to 56	56 to 90	90 to 220	220 to 280	280 to 330	330 to 710	710 to 900	900 to 1000	1000 to 1350	1350 to 1500	1500 to 1650	1650 to 2200	2200 to 3600	3600 to 7500	7500 to 10000
ϕ3 Circular type	40°	Transparent Colored	20									SLI-343YC	SLI-343YC	SLI-343YC	SLI-343YC									
															SLI-343Y8C	SLI-343Y8C	SLI-343Y8C	SLI-343Y8C	SLI-343Y8C					
									SLI-343YC (W)	SLI-343YC (W)	SLI-343YC (W)	SLI-343YC (W)	SLI-343YC (W)											
			10			SLR-343YC	SLR-343YC	SLR-343YC	SLR-343YC															
		Diffused Colored	20									SLI-343YY	SLI-343YY	SLI-343YY	SLI-343YY									
													SLI-343Y8Y	SLI-343Y8Y	SLI-343Y8Y	SLI-343Y8Y	SLI-343Y8Y							
									SLI-343YY (W)	SLI-343YY (W)	SLI-343YY (W)	SLI-343YY (W)	SLI-343YY (W)											
			10		SLR-343YY	SLR-343YY	SLR-343YY	SLR-343YY																
	85°	Transparent Colored	10		SLR-332YC	SLR-332YC	SLR-332YC	SLR-332YC																
		Diffused Colored		SLR-332YY	SLR-332YY	SLR-332YY	SLR-332YY																	
ϕ3 Circular type (Direct mount 5mm pitch type)	40°	Transparent Colored	20						SLI-325YC (W)	SLI-325YC (W)	SLI-325YC (W)	SLI-325YC (W)	SLI-325YC (W)											
			10			SLR-325YC	SLR-325YC	SLR-325YC	SLR-325YC															
		Diffused Colored	20						SLI-325YY (W)	SLI-325YY (W)	SLI-325YY (W)	SLI-325YY (W)	SLI-325YY (W)											
ϕ3 Flat disc type	35°	Transparent Colored	10		SLR-322YC	SLR-322YC	SLR-322YC	SLR-322YC																
	50°	Diffused Colored			SLR-322YY	SLR-322YY	SLR-322YY	SLR-322YY																
ϕ4 Oval type	140°	Diffused Colored	20												SLI-430Y2U	SLI-430Y2U								
ϕ5 Circular type	10°	Transparent Colorless	20																SLI-580YT	SLI-580YT	SLI-580YT	SLI-580YT	SLI-580YT	
	20°																					SLI-570Y2T	SLI-570Y2T	SLI-570Y2T
															SLI-570YT	SLI-570YT	SLI-570YT	SLI-570YT	SLI-570YT	SLI-570YT	SLI-570YT	SLI-570YT		
	40°													SLI-560YT	SLI-560YT	SLI-560YT	SLI-560YT	SLI-560YT	SLI-560YT	SLI-560YT				
		Transparent Colored	10				SLR-56YC	SLR-56YC	SLR-56YC	SLR-56YC	SLR-56YC													
		Diffused Colored				SLR-56YY	SLR-56YY	SLR-56YY	SLR-56YY															

注：规格书所示光强包含±10%误差。

插件LED

绿色(M, P, E)光强一览表

<table>
<tr><th>Shape</th><th>Viewing Angle (2θ1/2)</th><th>Resin Color</th><th>Luminous intensity (mcd)
I_F (mA)</th><th>2.2 to 3.6</th><th>3.6 to 5.6</th><th>5.6 to 9</th><th>9 to 18</th><th>18 to 28</th><th>28 to 45</th><th>45 to 56</th><th>56 to 71</th><th>71 to 110</th><th>110 to 220</th><th>220 to 330</th><th>330 to 710</th><th>710 to 900</th><th>900 to 1100</th><th>1100 to 1350</th><th>1350 to 1650</th><th>1650 to 2200</th><th>2200 to 3600</th><th>3600 to 5200</th><th>5200 to 7500</th><th>7500 to 10000</th><th>10000 to 20000</th><th>20000 to 36000</th></tr>
<tr><td rowspan="13"></td><td rowspan="11">40°</td><td rowspan="5">Transparent Colored</td><td rowspan="3">20</td><td colspan="7"></td><td colspan="4">SLI-343MC</td><td colspan="3"></td><td colspan="9"></td></tr>
<tr><td colspan="8"></td><td colspan="3">SLI-343M8C</td><td colspan="12"></td></tr>
<tr><td colspan="3"></td><td colspan="3">SLI-343P8C</td><td colspan="17"></td></tr>
<tr><td rowspan="2">10</td><td colspan="3"></td><td colspan="5">SLR-343MC</td><td colspan="15"></td></tr>
<tr><td colspan="4">SLR-343PC</td><td colspan="19"></td></tr>
<tr><td rowspan="5">Diffused Colored</td><td rowspan="3">20</td><td colspan="7"></td><td colspan="4">SLI-343MG</td><td colspan="3"></td><td colspan="9"></td></tr>
<tr><td colspan="8"></td><td colspan="3">SLI-343M8G</td><td colspan="12"></td></tr>
<tr><td colspan="3"></td><td colspan="3">SLI-343P8G</td><td colspan="17"></td></tr>
<tr><td rowspan="2">10</td><td colspan="2"></td><td colspan="4">SLR-343MG</td><td colspan="17"></td></tr>
<tr><td colspan="4">SLR-343PG</td><td colspan="19"></td></tr>
<tr><td>Transparent Colorless</td><td>20</td><td colspan="13"></td><td colspan="5">SLR343EN4T</td><td></td><td colspan="4"></td></tr>
<tr><td rowspan="2">85°</td><td>Diffused Colored</td><td rowspan="2">10</td><td colspan="2"></td><td colspan="4">SLR-332MC</td><td colspan="17"></td></tr>
<tr><td>Transparent Colored</td><td colspan="2"></td><td colspan="4">SLR-332MG</td><td colspan="17"></td></tr>
<tr><td rowspan="2">φ3 Circular type (Direct mount 5mm pitch type)</td><td rowspan="2">40°</td><td>Transparent Colored</td><td rowspan="2">10</td><td colspan="3"></td><td colspan="5">SLR-325MC</td><td colspan="15"></td></tr>
<tr><td>Diffused Colored</td><td colspan="2"></td><td colspan="4">SLR-325MG</td><td colspan="17"></td></tr>
<tr><td rowspan="2">φ3 Flat disc type</td><td>35°</td><td>Transparent Colored</td><td rowspan="2">10</td><td colspan="3"></td><td colspan="5">SLR-322MC</td><td colspan="15"></td></tr>
<tr><td>50°</td><td>Diffused Colored</td><td colspan="2"></td><td colspan="4">SLR-322MG</td><td colspan="17"></td></tr>
<tr><td>φ4 Oval type</td><td>140°</td><td>Diffused Colored</td><td>20</td><td colspan="8"></td><td colspan="2">SLI-430MG</td><td colspan="13"></td></tr>
<tr><td rowspan="7">φ5 Circular type</td><td>10°</td><td rowspan="3">Transparent Colorless</td><td rowspan="3">20</td><td colspan="10"></td><td colspan="4">SLA-580MT</td><td colspan="9"></td></tr>
<tr><td>20°</td><td colspan="10"></td><td colspan="4">SLA-570MT</td><td colspan="9"></td></tr>
<tr><td rowspan="3">40°</td><td colspan="6"></td><td colspan="4">SLA-560MT</td><td colspan="13"></td></tr>
<tr><td>Transparent Colored</td><td rowspan="2">10</td><td colspan="4"></td><td colspan="5">SLR-56MC</td><td colspan="14"></td></tr>
<tr><td>Diffused Colored</td><td colspan="2"></td><td colspan="4">SLR-56MG</td><td colspan="17"></td></tr>
<tr><td>10°</td><td rowspan="2">Transparent Colorless</td><td rowspan="2">20</td><td colspan="19"></td><td colspan="3">SLA580ENT</td><td></td></tr>
<tr><td>40°</td><td colspan="15"></td><td colspan="3">SLA560EN4T</td><td colspan="2"></td><td colspan="3"></td></tr>
</table>

注：规格书所示光强包含±10%误差。

蓝色(B)光强一览表

<table>
<tr><th>Shape</th><th>Viewing Angle (2θ1/2)</th><th>Resin Color</th><th>Luminous intensity (mcd)
I_F (mA)</th><th>110 to 220</th><th>220 to 300</th><th>300 to 470</th><th>470 to 1000</th><th>1000 to 1350</th><th>1350 to 1500</th><th>1500 to 1650</th><th>1650 to 2200</th><th>2200 to 3000</th><th>3000 to 4700</th><th>4700 to 5500</th><th>5500 to 7500</th><th>7500 to 10000</th><th>10000 to 20000</th></tr>
<tr><td rowspan="2">φ3 Circular type</td><td rowspan="2">40°</td><td rowspan="2">Transparent Colorless</td><td rowspan="2">20</td><td colspan="3"></td><td colspan="5">SLR343BN2T</td><td colspan="6"></td></tr>
<tr><td colspan="2"></td><td colspan="2">SLR343BN4T</td><td colspan="3"></td><td colspan="7"></td></tr>
<tr><td rowspan="3">φ5 Circular type</td><td>10°</td><td rowspan="3">Transparent Colorless</td><td rowspan="3">20</td><td colspan="5"></td><td colspan="5">SLA580BNT</td><td colspan="2"></td><td colspan="2"></td></tr>
<tr><td rowspan="2">40°</td><td colspan="4"></td><td colspan="6">SLA560BN2T</td><td colspan="4"></td></tr>
<tr><td colspan="2"></td><td colspan="2">SLA560BN4T</td><td colspan="3"></td><td colspan="7"></td></tr>
</table>

注：规格书所示光强包含±10%误差。

白色(WB)光强一览表

<table>
<tr><th>Shape</th><th>Viewing Angle (2θ1/2)</th><th>Resin Color</th><th>Luminous intensity (mcd)
I_F (mA)</th><th>220 to 330</th><th>330 to 470</th><th>470 to 680</th><th>680 to 1000</th><th>1000 to 1500</th><th>1500 to 2200</th><th>2200 to 3300</th><th>3300 to 4700</th><th>4700 to 6800</th><th>6800 to 10000</th><th>10000 to 15000</th></tr>
<tr><td>φ3 Circular type</td><td>40°</td><td>Transparent Colorless</td><td>20</td><td colspan="5"></td><td colspan="4">SLR343WBN2PT</td><td colspan="2"></td></tr>
<tr><td>φ5 Circular type</td><td>40°</td><td>Transparent Colorless</td><td>20</td><td colspan="5"></td><td colspan="4">SLA560WBN2PT</td><td colspan="2"></td></tr>
</table>

注：规格书所示光强包含±10%误差。

插件LED

φ3 型

Shape	Package Image	Viewing Angle 2θ1/2 (Element type)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25℃)					
					Dominant Wavelength λ_P/ Chromaticity Coordinates (x, y) Typ* (nm)	I_F (mA)	Luminous Intensity I_V Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Forward Voltage V_F Typ (V)	I_F (mA)	Reverse Current I_R Max (μA)	V_R (V)	Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (℃)	Storage Temperature Tstg (℃)
φ3 Circular type	Pressure Release	40° Standard	Red	SLI-343V8RC	639	20	150	330	(680)	20	2.2	20	10	9	54	20	100*2	9	−30 to +85	−40 to +100
				SLI-343V8R			100	220	(470)											
				SLI-343U8RC	630	20	150	330	(680)	20	2.2	20	10	9	54	20	100*2	9	−30 to +85	−40 to +100
				SLI-343U8R			100	220	(470)											
			Orange	SLI-343D8C	611	20	330	680	(1,500)	20	2.2	20	10	9	54	20	100*2	9	−30 to +85	−40 to +100
				SLI-343D8U			220	470	(1,000)											
			Yellow	SLI-343Y8C	593	20	330	680	(1,500)	20	2.2	20	10	9	54	20	100*2	9	−30 to +85	−40 to +100
				SLI-343Y8Y			220	470	(1,000)											
			Yellow Green	SLI-343M8C	572	20	68	150	(330)	20	2.2	20	10	9	54	20	100*2	9	−30 to +85	−40 to +100
				SLI-343M8G																
			Green	SLI-343P8C	560	20	10	22	(47)	20	2.2	20	10	9	54	20	100*2	9	−30 to +85	−40 to +100
				SLI-343P8G																
		40° High Luminous intensity	Red	SLI-343URC	630	20	90	450	(710)	20	1.9	20	100	9	125	50	200*2	9	−25 to +85	−30 to +100
				SLI-343UR				350												
			Orange	SLI-343DC	611	20	90	500	(710)	20	1.9	20	100	9	125	50	200*2	9	−25 to +85	−30 to +100
				SLI-343DU				350												
			Yellow	SLI-343YC	591	20	90	350	(710)	20	1.9	20	100	9	125	50	200*2	9	−25 to +85	−30 to +100
				SLI-343YY				300												
			Yellow Green	SLI-343MC	572	20	56	200	—	20	2.1	20	100	9	62	25	100*2	9	−25 to +80	−30 to +100
				SLI-343MG				180												
			Blue	New SLR343BN2T	470	20	470	1,000	2,200	20	3.2	20	10	5	126	30	100*2	5	−20 to +80	−30 to +100
			White	New SLR343WBN2PT	(x, y) (0.31, 0.31)	20	1,500	3,300	—	20	3.2	20	10	5	126	30	100*2	5	−20 to +80	−30 to +100
		40° Standard	Red	SLR-343VC	650	10	9	25	(71)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-343VR			6	16	(45)											
			Orange	SLR-343DC	610	10	9	25	(71)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-343DU			6	16	(45)											
			Yellow	SLR-343YC	585	10	6	16	(45)	10	2.1	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-343YY			4	10	(28)											
			Yellow Green	SLR-343MC	563	10	9	25	(71)	10	2.1	10	10	3	75	25	60*1	3	−25 to +85	−30 to +100
				SLR-343MG			6	16	(45)											
			Green	New SLR343EN4T	523	20	900	2,200	—	20	3.2	20	100	5	120	30	100*2	5	−20 to +80	−30 to +100
			Blue	New SLR343BN4T	468	20	300	680	—	20	3.2	20	100	5	120	30	100*2	5	−20 to +80	−30 to +100
		40° Low Current	Red	SLI-343URC (W)	630	20	36	200	(280)	20	1.9	20	100	9	125	50	200*2	9	−25 to +85	−30 to +100
				SLI-343UR (W)				160												
			Orange	SLI-343DC (W)	611	20	56	300	(450)	20	1.9	20	100	9	125	50	200*2	9	−25 to +85	−30 to +100
				SLI-343DU (W)				250												
			Yellow	SLI-343YC (W)	591	20	36	200	(280)	20	1.9	20	100	9	125	50	200*2	9	−25 to +85	−30 to +100
				SLI-343YY (W)				160												
		85° Standard	Red	SLR-332VC	650	10	4	10	(28)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-332VR																
			Orange	SLR-332DC	610	10	6	16	(45)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-332DU			4	10	(28)											
			Yellow	SLR-332YC	585	10	4	10	(28)	10	2.1	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-332YY			2	6	(18)											
			Yellow Green	SLR-332MC	563	10	6	16	(45)	10	2.1	10	10	3	75	25	60*1	3	−25 to +85	−30 to +100
				SLR-332MG																

φ5 型

Shape	Package Image	Viewing Angle 2θ1/2 (Element type)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Ratings (T_a=25℃)					
					Dominant Wavelength λ_P/ Chromaticity Coordinates (x, y) Typ* (nm)	I_F (mA)	Luminous Intensity I_V Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Forward Voltage V_F Typ (V)	I_F (mA)	Reverse Current I_R Max (μA)	V_R (V)	Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (℃)	Storage Temperature Tstg (℃)
φ5 Circular type		10° High Luminous intensity	Red	SLI-580UT	630	20	2,000	5,000	(11,000)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
			Orange	SLI-580DT	611	20	1,350	5,000	(7,500)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
			Yellow	SLI-580YT	591	20	1,350	5,000	(7,500)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
			Yellow Green	SLA-580MT	563	20	200	470	(1,100)	20	2.3	20	10	4	75	25	60*1	4	−25 to +85	−30 to +100
			Green	New SLA580ENT	518	20	6,100	27,000	—	20	3.3	20	100	5	120	30	100*2	5	−20 to +80	−30 to +100
			Blue	New SLA580BNT	468	20	1,350	4,000	—	20	3.3	20	100	5	120	30	100*2	5	−20 to +80	−30 to +100
		20° High Luminous intensity	Red	SLI-570UT	630	20	900	3,000	(5,200)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
				SLI-570U2T			2,200	4,000	(10,000)											
			Orange	SLI-570DT	611	20	900	3,000	(5,200)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
			Yellow	SLI-570YT	591	20	610	2,500	(3,600)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
				SLI-570Y2T			2,200	5,200	(10,000)		2.1									
			Yellow Green	SLA-570MT	563	20	200	470	(1,100)	20	2.3	20	10	4	75	25	60*1	4	−25 to +85	−30 to +100
		40° High Luminous intensity	Red	SLI-560UT	630	20	300	1,000	(1,650)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
			Orange	SLI-560DT	611	20	300	1,000	(1,650)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
			Yellow	SLI-560YT	591	20	300	1,000	(1,650)	20	1.9	20	100	9	125	50	200*2	9	−30 to +85	−40 to +100
			Yellow Green	SLA-560MT	563	20	42	100	(240)	20	2.3	20	10	4	75	25	60*1	4	−25 to +85	−30 to +100
			Blue	New SLA560BN2T	470*3	20	1,000	2,200	4,700	20	3.2	20	10	5	126	30	100*2	5	−20 to +80	−30 to +100
			White	New SLA560WBN2PT	(x, y) (0.31, 0.31)	20	1,500	3,300	6,800	20	3.2	20	10	5	126	30	100*2	5	−20 to +80	−30 to +100
	 (SLR-56)	40° Standard	Red	SLR-56VC	650	10	9	25	(71)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-56VR			4	10	(28)											
			Orange	SLR-56DC	610	10	9	25	(71)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-56DU			4	10	(28)											
			Yellow	SLR-56YC	585	10	9	25	(71)	10	2.1	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-56YY			6	16	(45)											
			Yellow Green	SLR-56MC	563	10	14	40	(110)	10	2.1	10	10	3	75	25	60*1	3	−25 to +85	−30 to +100
				SLR-56MG			6	16	(45)											
			Green	New SLA560EN4T	523	20	1,350	3,000	—	20	3.2	20	100	5	120	30	100*2	5	−20 to +80	−30 to +100
			Blue	New SLA560BN4T	468	20	300	680	—	20	3.2	20	100	5	120	30	100*2	5	−20 to +80	−30 to +100

*1 Duty≦1/5, 200Hz　*2 Duty≦1/10, 1kHz　*3 主波长

*关于白色，用色度坐标(x, y)标记。

( ): Reference

插件LED

椭圆型

Shape	Package Image	Viewing Angle 2θ1/2 (Element type)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25˚C) Dominant Wavelength λ_D Typ (nm)	I_F (mA)	Luminous Intensity I_V Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Forward Voltage V_F Typ (V)	I_F (mA)	Reverse Current I_R Max (μA)	V_R (V)	Absolute Maximum Ratings (T_a=25˚C) Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
Oval type ϕ4		140° Standard	Red	SLI-430U2R	620*3	20	220	400	(680)	20	2.0	20	10	9	75	30	100*2	9	−40 to +85	−40 to +100
			Orange	SLI-430DU	605*3	20	220	470	(680)	20	2.1	20	10	9	75	30	100*2	9	−40 to +85	−40 to +100
			Yellow	SLI-430Y2U	590*3	20	330	500	(900)	20	2.1	20	10	9	75	30	100*2	9	−40 to +85	−40 to +100
			Yellow Green	SLI-430MG	570*3	20	68	120	(220)	20	2.1	20	10	9	75	30	100*2	9	−40 to +85	−40 to +100

特殊型

Shape	Package Image	Viewing Angle 2θ1/2 (Element type)	Emitting Color	Part No.	Electrical and Optical Characteristics (T_a=25˚C) Dominant Wavelength λ_D Typ (nm)	I_F (mA)	Luminous Intensity I_V Min (mcd)	Typ (mcd)	Max (mcd)	I_F (mA)	Forward Voltage V_F Typ (V)	I_F (mA)	Reverse Current I_R Max (μA)	V_R (V)	Absolute Maximum Ratings (T_a=25˚C) Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
ϕ3.2 Circular type Direct Mount 5mm Pitch type		40° Low Current	Red	SLI-325URC (W)*1	630	20	36	160	(280)	20	1.9	20	100	4	48	20	60*1	4	−25 to +85	−30 to +100
				SLI-325UR (W)*1				100												
			Orange	SLI-325DC (W)*1	611	20	36	160	(280)	20	1.9	20	100	4	48	20	60*1	4	−25 to +85	−30 to +100
				SLI-325DU (W)*1				100												
			Yellow	SLI-325YC (W)*1	591	20	36	160	(280)	20	1.9	20	100	4	48	20	60*1	4	−25 to +85	−30 to +100
				SLI-325YY (W)*1				100												
		40° Standard	Red	SLR-325VC*1	650	10	6	16	(45)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-325VR*1			4	10	(28)											
			Orange	SLR-325DC*1	610	10	6	16	(45)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
				SLR-325DU*1			4	10	(28)											
			Yellow	SLR-325YC*1	585	10	6	16	(45)	10	2.1	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
			Yellow Green	SLR-325MC*1	563	10	9	25	(71)	10	2.1	10	10	3	75	25	60*1	3	−25 to +85	−30 to +100
				SLR-325MG*1			6	16	(45)											
ϕ3 Flat Disc type		35° Standard	Red	SLR-322VC	650	10	6	16	(45)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
			Orange	SLR-322DC	610	10	6	16	(45)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
			Yellow	SLR-322YC	585	10	4	10	(28)	10	2.1	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
			Yellow Green	SLR-322MC	563	10	9	25	(71)	10	2.1	10	10	3	75	25	60*1	3	−25 to +85	−30 to +100
		50° Standard	Red	SLR-322VR	650	10	4	10	(45)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
			Orange	SLR-322DU	610	10	2	6	(18)	10	2.0	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
			Yellow	SLR-322YY	585	10	4	10	(28)	10	2.1	10	10	3	60	20	60*1	3	−25 to +85	−30 to +100
			Yellow Green	SLR-322MG	563	10	6	16	(45)	10	2.1	10	10	3	75	25	60*1	3	−25 to +85	−30 to +100

*SLI-325/SLR-325系列仅支持直型包装。

*1 Duty≤1/5, 200Hz *2 Duty≤1/10, 1kHz *3 主波长

( ): 参考值

●品名构成说明〈插件LED〉

■元件发光颜色为蓝(B)、绿(E)、白(WB)以外颜色时

元件分类代码 特别记载 特别管理代码

S L I — 3 4 3 V □ 8 R C 3 F □ □ □ □ □

系列名称 封装类型 颜色 树脂颜色 包装规格 光强等级

系列名称

SLA	1-Die Circular type High Luminous intensity LED Lamps
SLI	1-Die Circular type Low Current High Luminous intensity LED Lamps
SLR	1-Die Circular type LED Lamp

封装类型

343	ϕ3 Circular type
332	ϕ3 Circular type
56	ϕ5 Circular type
560	ϕ5 Circular type
570	ϕ5 Circular type
580	ϕ5 Circular type
430	Oval type ϕ4
325	ϕ3.2 Circular type
322	ϕ3 Flat disc type

颜色

V	Red
U	Red
U2	Red
D	Orange
Y	Yellow
Y2	Yellow
M	Yellowish green
P	Green

树脂颜色

R	<Red>Diffused colored
U	<Orange>Diffused colored
Y	<Yellow>Diffused colored
G	<Yellowish green> Diffused colored
C	Transparent colored
T	Transparent colorless

包装规格

3F	1-Die straight bulk
T31 T32	Refer to taping specification

光强等级

请参考规格书

■元件发光颜色为蓝(B)、绿(E)、白(WB)时

元件分类代码 特别记载 色度(仅白色时) *"SLA560WBD2PT"不适用 特别管理代码

S L R 3 4 3 W B N 2 P T 2 □ □ □ □ □ □

系列名称 封装类型 颜色 树脂颜色 包装规格 光强等级

系列名称

SLA	1-Die Circular type High Luminous intensity LED Lamps
SLR	1-Die Circular type LED Lamps

封装类型

343	ϕ3 Circular type
560	ϕ5 Circular type
580	ϕ5 Circular type

颜色

BN	Blue
EN	Green
WBN	White

树脂颜色

T	Transparent colorless
W	Milky white

包装规格

3F	1-Die straight bulk
T31 T32	Refer to specification

〈白色时〉

3	1-Die straight bulk
1	Refer to specification (same as T31)
2	Refer to specification (same as T32)

光强等级

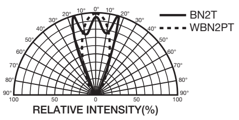
请参考规格书

插件LED

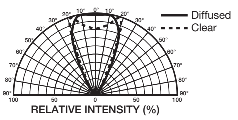
●指向性 (单位:deg)

〈ϕ3 型〉

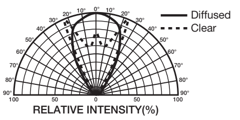
● SLR343BN2T/WBN2PT



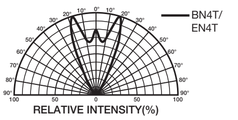
● SLI-343 series



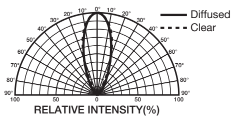
● SLI-343x8 series



● SLR343BN4T/EN4T

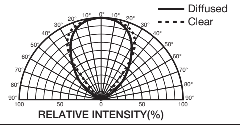


● SLR-343 series



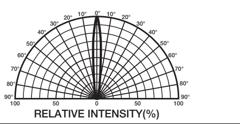
〈ϕ3 型〉

● SLR-332 series

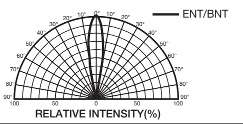


〈ϕ5 型〉

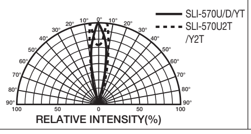
● SLI-580 series



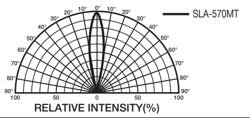
● SLA580ENT/BNT



● SLI-570 series

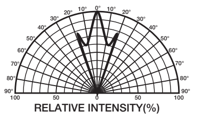


● SLA-570MT

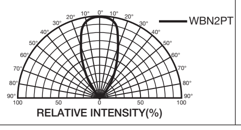


〈ϕ5 型〉

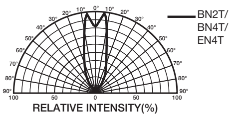
● SLI-560 series



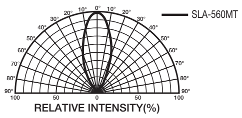
● SLA560WBN2PT



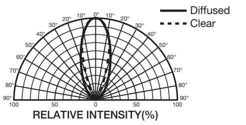
● SLA560BN2T/BN4T/EN4T



● SLA-560MT

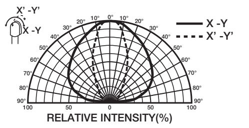


● SLR-56 series



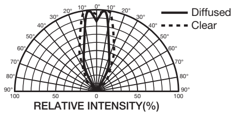
〈椭圆型〉

● SLI-430 series

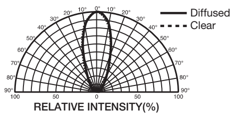


〈特殊型〉

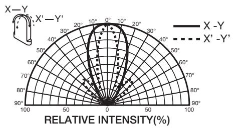
● SLI-325 series



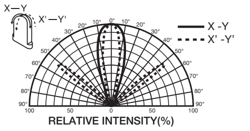
● SLR-325 series



● SLR-322 series (Diffused)



● SLR-322 series (Clear)

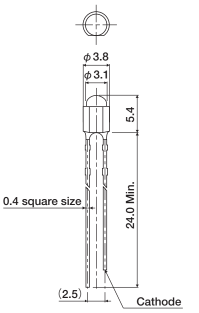


注：指向性只记载标准特性。上述以外类型请另行垂询。

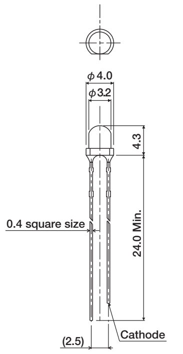
●外形尺寸图 (单位:mm)

〈ϕ3 型〉

- **SLI-343 series**
- **SLR-343 series**
- **SLR343 series**

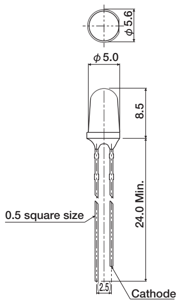


- **SLR-332 series**

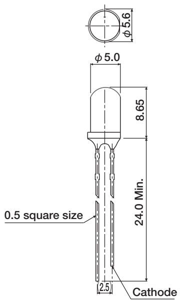


〈ϕ5 型〉

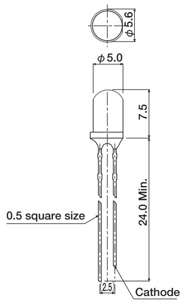
- **SLI-580 series**
- **SLA580 series**



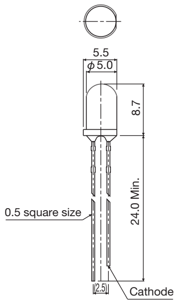
- **SLI-570 series**
- **SLA-570 series**



- **SLI-560 series**
- **SLA-560 series**
- **SLA560 series**

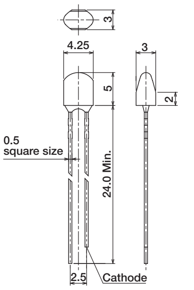


- **SLR-56 series**



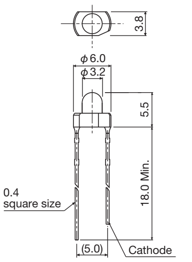
〈椭圆型〉

- **SLI-430 series**

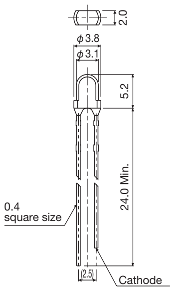


〈特殊型〉

- **SLI-325 series**
- **SLR-325 series**



- **SLR-322 series**



*详情请参考规格书。

LED显示器

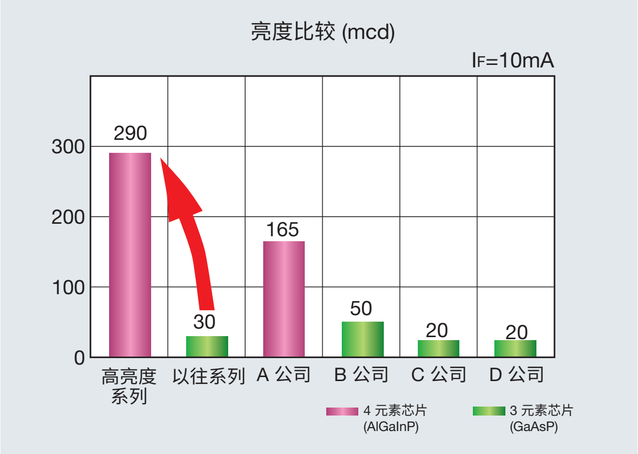
点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

高亮度LED数字显示器系列的特点

罗姆的高亮度LED数字显示器同时实现了高亮度和低功耗。

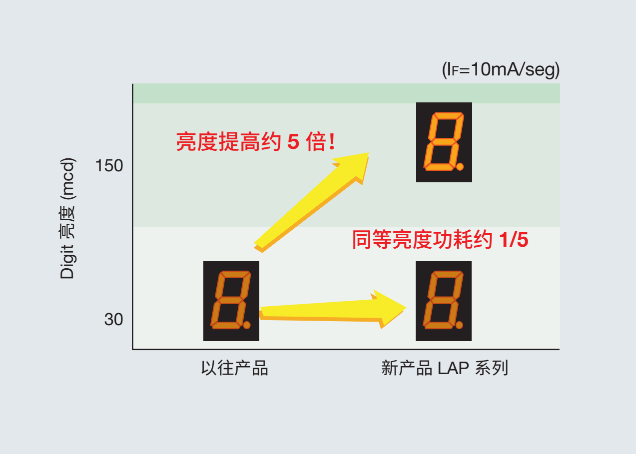
■ 高亮度

由于采用了4元素，亮度是以往数字显示器的大约10倍。
(橙色发光率)



■ 低功耗

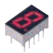
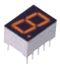
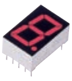
电流是以往的1/5也能实现相同的亮度。为组件的省电化做出贡献。



高亮度LED数字显示器

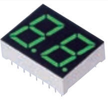
拥有高亮度、低功耗和高可靠性。

一位数LED数字显示器

Shape	Part No.	Emitting Color	Absolute Maximum Ratings (T_a=25°C)				Absolute Maximum Ratings		Lectrical and Optical Characteristics (T_a=25°C)									
			Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP}* (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage V_F		Reverse Current I_R		Light Wavelength Peak Half-wave			Luminous Intensity/Digit I_V		
									Typ (V)	I_F (mA)	Max (μA)	V_R (V)	λ_P Typ (nm)	$\Delta\lambda$ Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	I_F (mA)
 Character Height: 8mm External Dimensions: (7x11)	LAP-301VB/VL	Red	448	20	60	5	–25 to +75	–30 to +85	1.9	10	100	3	650	20	10	14	36	10
	LAP-301MB/ML	Green	448	20	60	5	–25 to +75	–30 to +85	1.9	10	100	3	572	20	10	36	100	10
	LAP-301DB/DL	Orange	448	20	60	5	–25 to +75	–30 to +85	1.9	10	100	3	605	20	10	56	250	10
 Character Height: 10.16mm External Dimensions: (9.6x13)	LAP-401VD/VN	Red	448	20	60	5	–25 to +75	–30 to +85	1.9	10	100	3	650	20	10	14	36	10
	LAP-401MD/MN	Green	448	20	60	5	–25 to +75	–30 to +85	1.9	10	100	3	572	20	10	36	100	10
	LAP-401DD/DN	Orange	448	20	60	5	–25 to +75	–30 to +85	1.9	10	100	3	605	20	10	56	250	10
 Character Height: 14.6mm External Dimensions: (12.5x19)	LAP-601VB/VL	Red	448	20	60	5	–25 to +75	–30 to +85	1.9	10	100	3	650	20	10	14	36	10
	LAP-601MB/ML	Green	448	20	60	5	–25 to +75	–30 to +85	1.9	10	100	3	572	20	10	36	100	10
	LAP-601DB	Orange	448	20	60	5	–25 to +75	–30 to +85	1.9	10	100	3	605	20	10	56	250	10

注：*I_{FP}的条件为Duty≤1/5，Pulse width≤1ms

两位数LED数字显示器

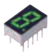
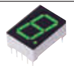
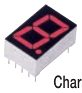
Shape	Part No.	Emitting Color	Absolute Maximum Ratings (T_a=25°C)				Absolute Maximum Ratings		Lectrical and Optical Characteristics (T_a=25°C)									
			Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP}* (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage V_F		Reverse Current I_R		Light Wavelength Peak Half-wave			Luminous Intensity/Digit I_V		
									Typ (V)	I_F (mA)	Max (μA)	V_R (V)	λ_P Typ (nm)	$\Delta\lambda$ Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	I_F (mA)
 Character Height: 14.3mm External Dimensions: (25x19)	LBP-602VA2/VK2	Red	896	20	60	5	–25 to +75	–30 to +85	1.9	10	100	3	650	20	10	14	36	10
	LBP-602MA2/MK2	Green	896	20	60	5	–25 to +75	–30 to +85	1.9	10	100	3	572	20	10	36	100	10
	LBP-602DA2/DK2	Orange	896	20	60	5	–25 to +75	–30 to +85	1.9	10	100	3	605	20	10	56	250	10

注：*I_{FP}的条件为Duty≤1/5，Pulse width≤1ms

LED数字显示器

一位数数字显示器系列备有8～14.6mm的字符高度和红、绿发光颜色。

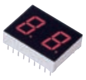
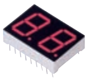
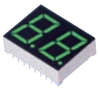
一位数LED数字显示器

Shape	Part No.	Emitting Color	Absolute Maximum Ratings (T_a=25°C)				Absolute Maximum Ratings		Lectrical and Optical Characteristics (T_a=25°C)									
			Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP}* (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage V_F		Reverse Current I_R		Light Wavelength			Luminous Intensity/Digit I_V		
									Typ (V)	I_F (mA)	Max (μA)	V_R (V)	Peak λ_P Typ (nm)	Half-wave $\Delta\lambda$ Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	I_F (mA)
 Character Height: 8mm External Dimensions: (7×11)	LA-301VB/VL	Red	320	15	60	5	–25 to +75	–30 to +85	2.0	10	100	3	650	40	10	3.6	10	10
	LA-301MB/ML	Green	480	20	60	5	–25 to +75	–30 to +85	2.1	10	100	3	563	40	10	3.6	10	10
	LA-301AB/AL	High luminous intensity Red	520	25	50	5	–25 to +75	–30 to +85	2.05	20	100	3	626	18	20	36	90	10
	LA-301EB/EL	High luminous intensity Orange	520	25	50	5	–25 to +75	–30 to +85	2.05	20	100	3	610	17	20	36	90	10
 Character Height: 10.16mm External Dimensions: (9.6×13)	LA-401VD/VN	Red	320	15	60	5	–25 to +75	–30 to +85	2.0	10	100	3	650	40	10	5.6	16	10
	LA-401MD/MN	Green	480	20	60	5	–25 to +75	–30 to +85	2.1	10	100	3	563	40	10	5.6	16	10
	LA-401AD/AN	High luminous intensity Red	520	25	50	5	–25 to +75	–30 to +85	2.05	20	100	3	626	18	20	36	90	10
	LA-401ED/EN	High luminous intensity Orange	520	25	50	5	–25 to +75	–30 to +85	2.05	20	100	3	610	17	20	36	90	10
 Character Height: 13mm External Dimensions: (12.5x17.5)	LA-501VD/VN	Red	480	20	60	5	–25 to +75	–30 to +85	2.0	10	100	3	650	40	10	5.6	16	10
	LA-501MD/MN	Green	480	20	60	5	–25 to +75	–30 to +85	2.1	10	100	3	563	40	10	5.6	16	10
 Character Height: 14.6mm External Dimensions: (12.5x19)	LA-601VB/VL	Red	480	20	60	5	–25 to +75	–30 to +85	2.0	10	100	3	650	40	10	5.6	14	10
	LA-601MB/ML	Green	480	20	60	5	–25 to +75	–30 to +85	2.1	10	100	3	563	40	10	9.0	22	10
	LA-601AB/AL	High luminous intensity Red	520	25	50	5	–25 to +75	–30 to +85	2.05	20	100	3	626	18	20	36	90	10
	LA-601EB/EL	High luminous intensity Orange	520	25	50	5	–25 to +75	–30 to +85	2.05	20	100	3	610	17	20	36	90	10

注：*I_{FP}的条件为Duty≤1/5，Pulse width≤1ms, 高亮度和蓝色I_{FP}为Duty≤1/10, Pulse width≤0.1 ms

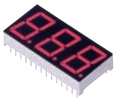
两位数数字显示器系列备有10.16～14.3mm的字符高度和红、绿发光颜色。

两位数LED数字显示器

Shape	Part No.	Emitting Color	Absolute Maximum Ratings (T_a=25°C)				Absolute Maximum Ratings		Lectrical and Optical Characteristics (T_a=25°C)									
			Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP}* (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage V_F		Reverse Current I_R		Light Wavelength			Luminous Intensity/Digit I_V		
									Typ (V)	I_F (mA)	Max (μA)	V_R (V)	Peak λ_P Typ (nm)	Half-wave $\Delta\lambda$ Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	I_F (mA)
 Character Height: 10.16mm External Dimensions: (24x18)	LB-402VD/VN	Red	640	15	60	5	–25 to +75	–30 to +85	2.0	10	100	3	650	40	10	5.6	16	10
	LB-402MD/MN	Green	960	20	60	5	–25 to +75	–30 to +85	2.1	10	100	3	563	40	10	9.0	25	10
 Character Height: 13mm External Dimensions: (25x17.5)	LB-502VD/VN	Red	960	20	60	5	–25 to +75	–30 to +85	2.0	10	100	3	650	40	10	5.6	16	10
	LB-502MD/MN	Green	960	20	60	5	–25 to +75	–30 to +85	2.1	10	100	3	563	40	10	9.0	25	10
 Character Height: 14.3mm External Dimensions: (25x19)	LB-602VA2/VK2	Red	960	20	60	5	–25 to +75	–30 to +85	2.0	10	100	3	650	40	10	5.6	16	10
	LB-602MA2/MK2	Green	960	20	60	5	–25 to +75	–30 to +85	2.1	10	100	3	563	40	10	9.0	25	10
	LB-602AA2/AK2	High luminous intensity Red	1,040	25	50	5	–25 to +75	–30 to +85	2.05	20	100	3	626	18	20	36	90	10
	LB-602EA2/EK2	High luminous intensity Orange	1,040	25	50	5	–25 to +75	–30 to +85	2.05	20	100	3	610	17	20	36	90	10

注：*I_{FP}的条件为Duty≤1/5，Pulse width≤1ms, 高亮度和蓝色I_{FP}为Duty≤1/10, Pulse width≤0.1 ms

三位数LED数字显示器

Shape	Part No.	Emitting Color	Absolute Maximum Ratings (T_a=25°C)				Absolute Maximum Ratings		Lectrical and Optical Characteristics (T_a=25°C)									
			Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP}* (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage V_F		Reverse Current I_R		Light Wavelength			Luminous Intensity/Digit I_V		
									Typ (V)	I_F (mA)	Max (μA)	V_R (V)	Peak λ_P Typ (nm)	Half-wave $\Delta\lambda$ Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	I_F (mA)
 Character Height: 14.3mm External Dimensions: (37.5x18)	LB-603VF/VP	Red	960	15	60	5	–25 to +75	–30 to +85	2.0	10	100	3	650	40	10	5.6	16	10

注：*I_{FP}的条件为Duty≤1/5，Pulse width≤1ms

表面贴装LED数字显示器

ROHM的LED数字显示器支持自动回流处理。

一位数LED数字显示器

Shape	Part No.	Emitting Color	Absolute Maximum Ratings (T_a=25°C)				Absolute Maximum Ratings		Lectrical and Optical Characteristics (T_a=25°C)									
			Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP}* (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)	Forward Voltage V_F		Reverse Current I_R		Light Wavelength			Luminous Intensity/Digit I_V		
									Typ (V)	I_F (mA)	Max (μA)	V_R (V)	Peak λ_P Typ (nm)	Half-wave $\Delta\lambda$ Typ (nm)	I_F (mA)	Min (mcd)	Typ (mcd)	I_F (mA)
 Character Height: 8mm External Dimensions: (6.8x11)	LF-3011VA/VK	Red	320	15	60	5	–25 to +75	–30 to +85	2.0	10	100	3	650	40	10	3.6	10	10
	LF-3011MA/MK	Green	480	20	60	5	–25 to +75	–30 to +85	2.1	10	100	3	563	40	10	3.6	10	10

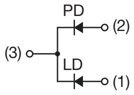
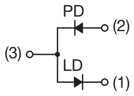
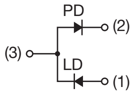
注：*I_{FP}的条件为Duty≤1/5，Pulse width≤1ms

激光二极管

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

激光二极管

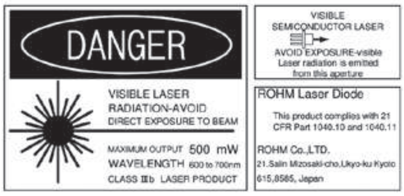
红光激光二极管

Part No.	Wavelength λP (nm)	Absolute Maximum Ratings (Tc=25˚C)			Electrical and Optical Characteristics (Tc=25˚C)							Po (mW)	Package	Equivalent Circuit
		Po (mW)	VR (V)	Topr Max (˚C)	ITH (mA)	Iop (mA)	η (W/A)	Vop (V)	Im (mA)	θ⊥ (deg)	θ// (deg)			
RLD65MZT7	659	7	2	70	20	28	0.70	2.3	0.24	27.0	8.0	5	 ϕ5.6mm	
RLD63NPC5 (Pure red)	635	6	2	40	24	33	0.55	2.2	0.18	32.0	8.0	5	 ϕ5.6mm (Open)	
RLD63NPC6 (Pure red)	638	12	2	50	28	43	0.70	2.3	0.15	32.0	8.0	10	 ϕ5.6mm (Open)	
RLD63NPC7 (Pure red)	638	17	2	50	32	57	0.60	2.2	0.16	30.0	8.0	15	 ϕ5.6mm (Open)	
RLD63NPC8 (Pure red)	638	24	2	50	32	65	0.60	2.25	0.20	30.0	8.0	20	 ϕ5.6mm (Open)	
New **RLD65NZN5**	660	10	2	60	11	20	0.75	2.25	0.65	25	9	7	 ϕ5.6mm	
RLD65NZX1 (Higher temp.)	663	10	2	80	15	24	0.85	2.3	0.30	27.0	9.0	7	 ϕ5.6mm	
RLD65NZX2 (Higher ESD)	658	7	2	70	25	33	0.60	2.3	0.20	28.0	8.5	5	 ϕ5.6mm	
RLD63PZCA (Pure red)	638	7	2	50	28	33	0.80	2.2	0.08	32.0	8.0	5	 ϕ5.6mm	
RLD65PZX2 (Higher ESD)	658	7	2	70	25	33	0.60	2.3	0.20	28.0	8.5	5	 ϕ5.6mm	
RLD65PZX3 (Higher ESD)	658	12	2	70	25	42	0.60	2.3	0.30	28.0	8.5	10	 ϕ5.6mm	

注：除另行标注外，所有电气及光学特性皆为标准值。

●关于开封品

开封产品(包装MARK为P的产品)的特性和可靠性可能因外部环境而恶化。
对于包含碳粉、人为异物、香烟烟雾在内的异物、离子导致的腐蚀、粘接剂及助焊剂的挥发性成分带来的影响、冷凝、光镊子效应等，请采取足够完善的解决措施。
此外，请注意不要触碰激光芯片发光部等组成器件。



DANGER

VISIBLE LASER
RADIATION-AVOID
DIRECT EXPOSURE TO BEAM

MAXIMUM OUTPUT 500 mW
WAVELENGTH 600 to 700nm
CLASS Ⅲb LASER PRODUCT

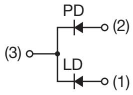
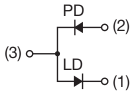
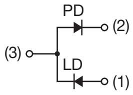
VISIBLE
SEMICONDUCTOR LASER
AVOID EXPOSURE-visible
Laser radiation is emitted
from this aperture

ROHM Laser Diode

This product complies with 21
CFR Part 1040.10 and 1040.11

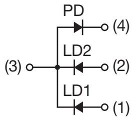
ROHM Co.,LTD.
21,Saiin Mizosaki-cho,Ukyo-ku Kyoto
615,8585, Japan

红外半导体激光二极管

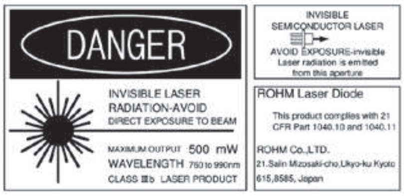
Part No.	Wavelength λ_P (nm)	Absolute Maximum Ratings (T_C=25˚C)			Electrical and Optical Characteristics (T_c=25°C)							P_O (mW)	Package	Equivalent Circuit
		P_O (mW)	V_R (V)	Topr Max (˚C)	I_{TH} (mA)	Iop (mA)	η (W/A)	Vop (V)	Im (mA)	θ⊥ (deg)	θ// (deg)			
RLD78MZA6	790	4.5	2	70	25	35	0.35	1.9	0.15	37.0	11.0	3	 ϕ5.6mm	
RLD78MZM7	792	20	2	60	11	33	0.65	1.8	0.50	24.0	8.5	15	 ϕ5.6mm	
RLD78NZM5	793	10	2	60	10	20	0.55	1.8	1.15	28.0	9.0	6	 ϕ5.6mm	
RLD78NZM7	792	20	2	60	11	33	0.65	1.8	0.90	24.0	8.5	15	 ϕ5.6mm	
RLD82NZJ1	822	220	2	60	50	255	0.95	2.4	0.30	17.0	9.5	200	 ϕ5.6mm	
RLD84NZJ2	842	220	2	60	40	250	0.95	2.4	0.40	19.0	9.5	200	 ϕ5.6mm	
RLD85NZJ4	852	220	2	60	40	250	0.95	2.4	0.40	19.0	9.5	200	 ϕ5.6mm	
RLD78PZM7	792	20	2	60	11	33	0.65	1.8	0.65	24.0	8.5	15	 ϕ5.6mm	
RLD82PZJ1	822	220	2	60	50	255	0.95	2.4	0.30	17.0	9.5	200	 ϕ5.6mm	
RLD84PZJ2	842	220	2	60	40	250	0.95	2.4	0.40	19.0	9.5	200	 ϕ5.6mm	
RLD85PZJ4	852	220	2	60	40	250	0.95	2.4	0.40	19.0	9.5	200	 ϕ5.6mm	
RLD94PZJ5	942	285	2	65	55	325	0.75	2.2	0.90	30.0	35.0	200	 ϕ5.6mm	

注：除另行标注外，所有电气及光学特性皆为标准值。

多光束半导体激光二极管

Part No.	Wavelength λ_P (nm)	Absolute Maximum Ratings (T_C=25˚C)			Electrical and Optical Characteristics (T_c=25°C)							P_O (mW)	Package	Equivalent Circuit
		P_O (mW)	V_R (V)	Topr Max (˚C)	I_{TH} (mA)	Iop (mA)	η (W/A)	Vop (V)	Im (mA)	θ⊥ (deg)	θ// (deg)			
New **RLD2BPNG5**	792	25	2	60	10	42	0.8	1.8	0.7	27.5	9.5	25	 ϕ5.6mm CAN (4PIN)	

注：除另行标注外，所有电气及光学特性皆为标准值。



DANGER

INVISIBLE LASER
RADIATION-AVOID
DIRECT EXPOSURE TO BEAM

MAXIMUM OUTPUT 500 mW
WAVELENGTH 760 to 990nm
CLASS Ⅲb LASER PRODUCT

INVISIBLE
SEMICONDUCTOR LASER
AVOID EXPOSURE-invisible
Laser radiation is emitted
from this aperture

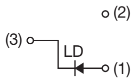
ROHM Laser Diode

This product complies with 21
CFR Part 1040.10 and 1040.11

ROHM Co.,LTD.
21.Saiin Mizosaki-cho,Ukyo-ku Kyoto
615,8585, Japan

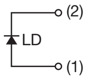
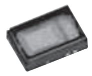
激光二极管

高输出功率半导体激光二极管

Part No.	Wavelength λP (nm)	Absolute Maximum Ratings (Tc=25˚C)			Electrical and Optical Characteristics (Tc=25°C)							Measurement pulse condition	Package	Equivalent Circuit
		IF (A)	PO (W)	Topr Max (˚C)	IF (A)	PO (W)	ITH (A)	VF (V)	θ⊥ (deg)	θ// (deg)	Emission area (μm×μm)			
New RLD90QZWA	905	6	17	85	5	15	0.3	13	20	14	35×10	Pulse width 50ns duty ratio 0.05%	 ϕ5.6mm	
RLD90QZWJ		9	25		9	25	0.4	15	20	14	50×10		 ϕ5.6mm	
New RLD90QZWB		11	30		9	25	0.4	13	25	14	50×10		 ϕ5.6mm	
RLD90QZW5		9	25		9	25	0.4	14	25	12	70×10		 ϕ5.6mm	
New RLD90QZWC		11	30		9	25	0.4	12	25	13	70×10		 ϕ5.6mm	
RLD90QZWD		13	40		12	35	0.5	11	25	13	100×10		 ϕ5.6mm	
RLD90QZW3		28	90		23	75	0.9	11	25	12	225×10		 ϕ5.6mm	
New RLD90QZW8		46	145		38	120	–	13	20	11	270×10		 ϕ5.6mm	

注：除另行标注外，所有电气及光学特性皆为标准值。

VCSEL(表面发光激光二极管)*

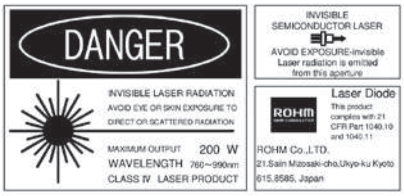
Part No.	Wavelength λP (nm)	Electrical and Optical Characteristics (Tc=25°C)							Emission area (mm×mm)	Measurement pulse condition	Package	Equivalent Circuit
		PO (mW)	IF (mA)	VF (V)	ITH (mA)	PCE (%)	θ [FWHM] (deg)	η (W/A)				
☆RLD94SAQ6	940	200	300	2	70	33	13	0.85	0.41×0.23	Pulse width 800µs 1shot	 t=0.77	
☆RLD94SAQ8	940	2,400	3,000	2	750	40	–00A: 20 –10A: 60×45 –20A: 72×55 –30A: 90×69 –40A: 110×85	1	1.10×0.82	Pulse width 400µs 1shot	 –00x: t=0.77 other: t=0.97	

注：除另行标注外，所有电气及光学特性皆为标准值。
*也可出售元件。详细内容请咨询销售人员。

☆: 开发中

●关于安全性

本产品旨在用于普通的电子设备或装置。
激光二极管发出的光对人体有害，因此不要直视或用镜片、硬化纸板等观看发光部。



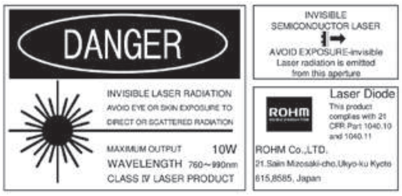
DANGER

INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION

MAXIMUM OUTPUT 200 W
WAVELENGTH 760~990nm
CLASS Ⅳ LASER PRODUCT

INVISIBLE
SEMICONDUCTOR LASER
AVOID EXPOSURE-invisible
Laser radiation is emitted
from this aperture

ROHM
Laser Diode
This product complies with 21 CFR Part 1040.10 and 1040.11
ROHM Co.,LTD.
21.Sain Mizosaki-cho,Ukyo-ku Kyoto
615.8585, Japan



DANGER

INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION

MAXIMUM OUTPUT 10W
WAVELENGTH 760~990nm
CLASS Ⅳ LASER PRODUCT

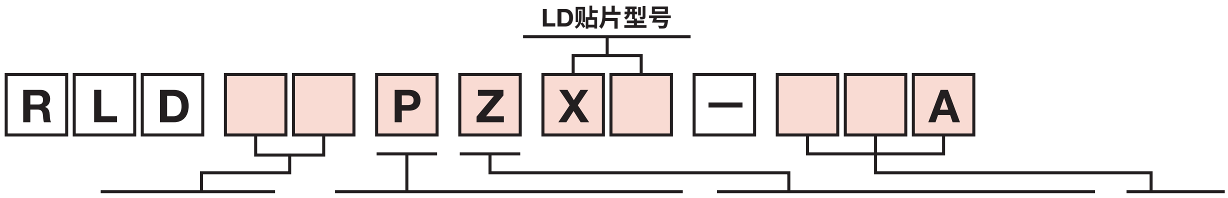
INVISIBLE
SEMICONDUCTOR LASER
AVOID EXPOSURE-invisible
Laser radiation is emitted
from this aperture

ROHM
Laser Diode
This product complies with 21 CFR Part 1040.10 and 1040.11
ROHM Co.,LTD.
21.Sain Mizosaki-cho,Ukyo-ku Kyoto
615.8585, Japan

如果需要在要求极高可靠性的、因产品故障或误操作会直接引起人身安全的机器或装置中使用时，请事先向ROHM销售代表咨询。

激光二极管

●品名构成说明



波长、光束数

63	630nm
65	650nm
78	780nm
82	820nm
84	840nm
85	850nm
90	900nm
94	940nm
2B	2 beam

极性

MARK	LD Common	PD Common
M	Cathode	Cathode
N	Anode	Cathode
P	Cathode	Anode
Q	Cathode	—
S	Floating	—

封装

MARK	Material	Out line	Pin	Glass Window
P	Metal	5.6ϕ	3	without
Z	Metal	5.6ϕ	3	with
N	Metal	5.6ϕ	4	with

细分编号

●记号和定义

■绝对最大额定值

在任何外部条件下，就是瞬间也不得超过的数值即绝对最大额定值。
以外壳温度T_C＝25°C时的数值作出规定。

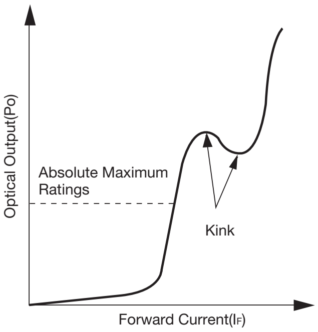
Parameter	Symbol	Definition
Optical Output	P_O	Maximum allowable optical output during continuous or pulse operation. No kinks will appear in the output vs. forward current curve up to this output value. (Fig.1)
Reverse Voltage	V_R	The maximum allowable voltage when a reverse bias is applied to the device. Lasers and photo diodes are rated separately.
Operating Temperature	Topr	Allowed ambient temperature range when the device is in operation. Delined to be the case temperature of the device.
Storage Temperature	Tstg	Allowed temperature range when the device is being stored.

■电气及光学特性

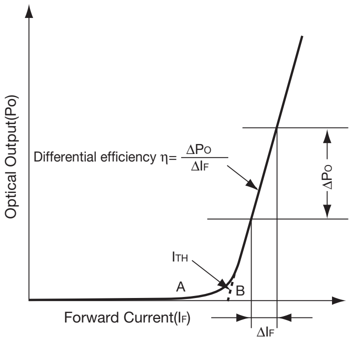
Item	Symbol	Definition
Threshold Current	I_{TH}	In Fig.2, A is the spontaneous emission range and B is the stimulated emission range. The threshold current is the current at which laser emission begins.
Operating Current	I_{OP}	The forward current required to generate the specified optical output.
Operating Voltage	V_{OP}	The forward voltage required to generate the specified optical output.
Differential Efficiency	η	The average increase in the output per unit of drive current. In the laser emission range, this is the slope of the linear optical output vs. forward current curve. (Fig.2)
Monitor Current	I_m	When the specified optical output is generated, this is the output current of the photodiode when a specified reverse voltage is applied to the monitor photodiode.
Parallel Divergence Angle Perpendicular Divergence Angle	$\theta//$ $\theta\perp$	Light emitted from the laser spreads as shown in Fig.3. The result of measurements of this spread in the parallel (x) and perpendicular (y) directions with respect to the junction surface is shown in Fig.3. The widths of the spread at the points where the strength drops to 1/2 the peak strength (half value full angles) are defined as angles and called θ//and θ⊥. (Fig.4)
Parallel Deviation Angle Perpendicular Deviation Angle	$\Delta\phi//$ $\Delta\phi\perp$	These values express the deviation of the optical axis with respect to the reference plane, and are defined for the parallel and perpendicular spread angles (Fig.4) to be (a - b)/2 (Fig.5).
Emission Point Accuracy	ΔX, ΔY, ΔZ	This indicates the amount of deviation of the emission point.ΔX and ΔY indicate deviation from the center of the package, and ΔZ indicates deviation from the reference plane. (Fig.6)
Peak Emission Wavelength	λ_p	Peak emission wavelength when generating the specified output. As shown in Fig.7, the emission spectrum has both a single mode and a multimode. In the multimode, the wavelength is delined as the wavelength with the highest intensity.
Power Conversion Efficiency	PCE	This indicates the ratio of optical output to input electric power.

激光二极管

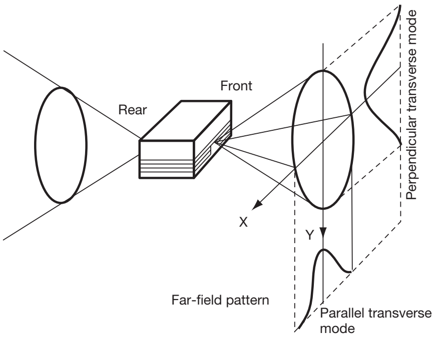
■Fig.1 光输出-正向电流特性



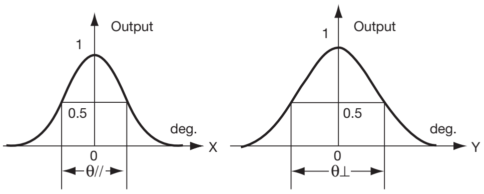
■Fig.2 光输出-正向电流特性



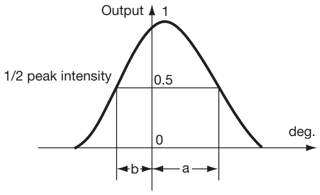
■Fig.3 辐射特性



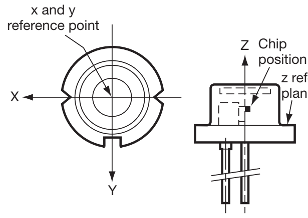
■Fig.4 辐射特性



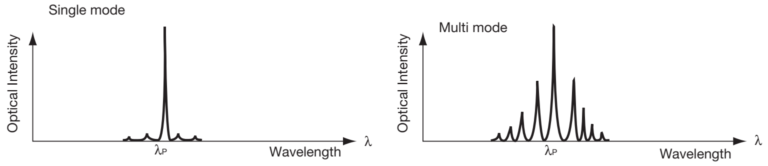
■Fig.5 光轴倾角



■Fig.6 发光点位置



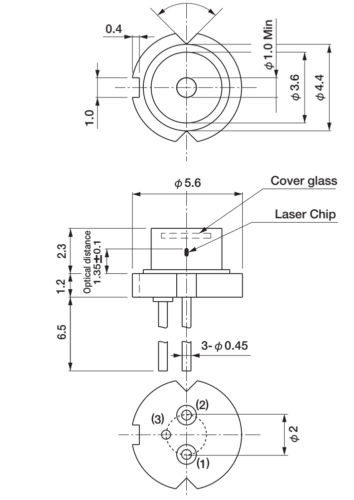
■Fig.7 振荡光谱特性



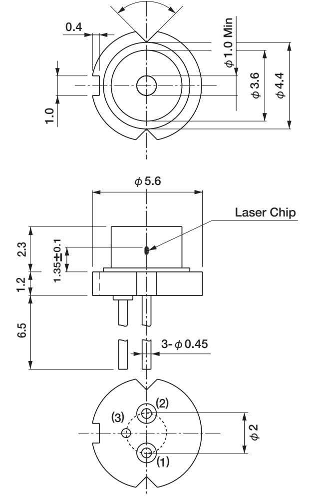
封装规格

●外形尺寸图 (单位:mm)

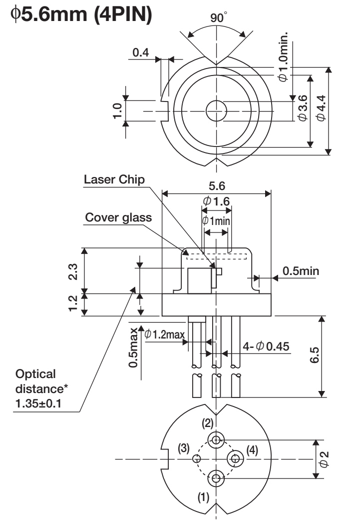
ϕ5.6mm



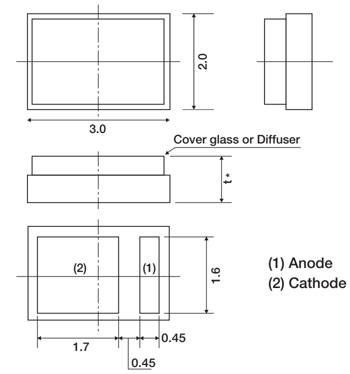
ϕ5.6mm (Open)



ϕ5.6mm (4PIN)



Infrared VCSEL
RLD94SAQ6/RLD94SAQ8



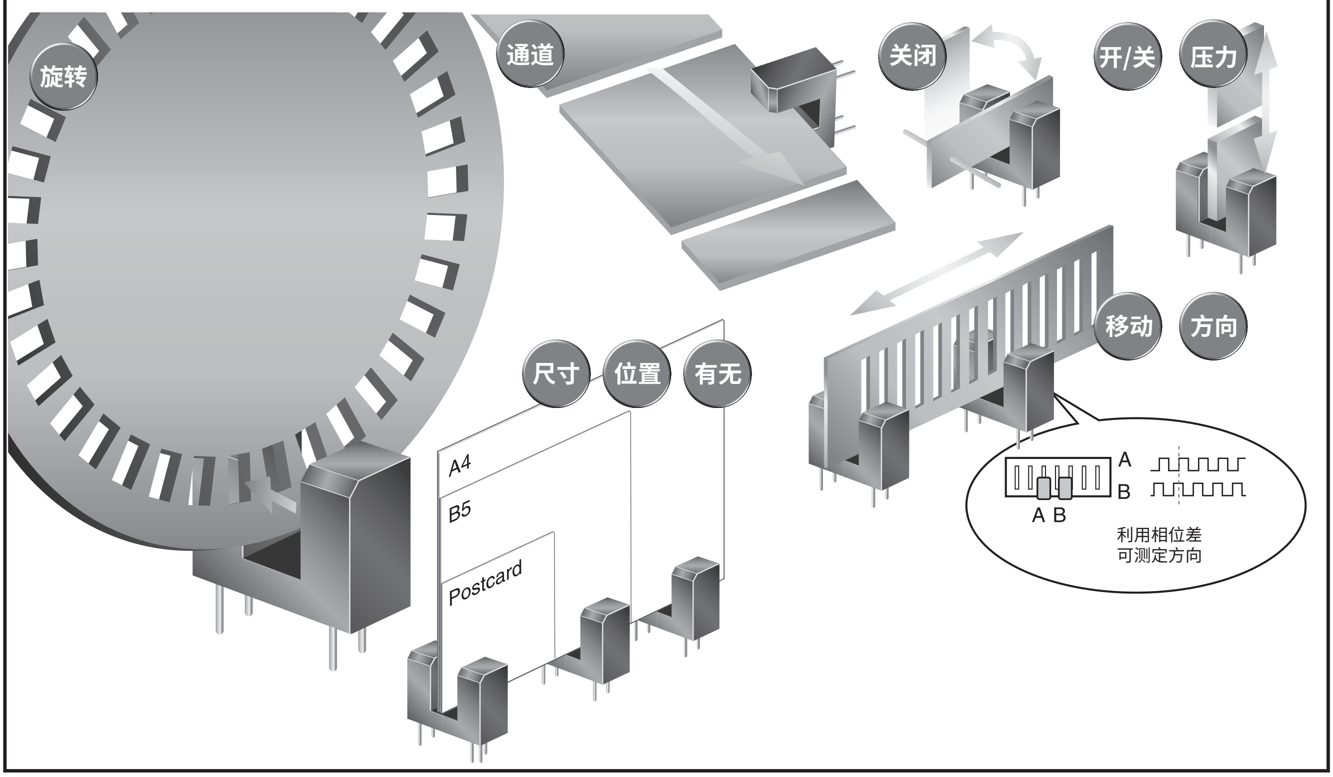
*根据品名有所不同，使用前请务必确认规格书。

MEMO

光学传感器

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

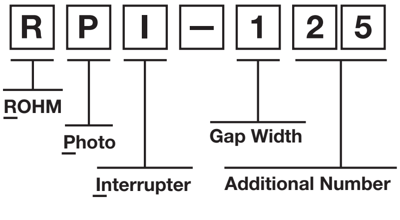
任何位移的探测



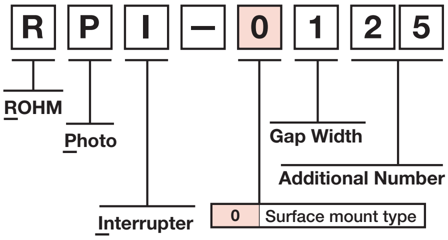
●品名构成说明

透过型_光电晶体管输出

● 7位

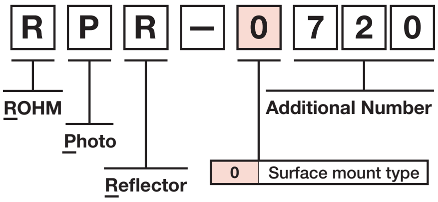


● 8位



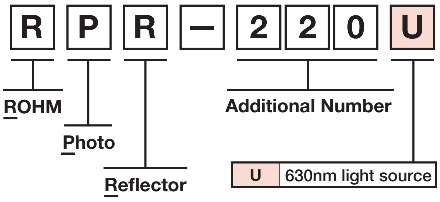
反射型_数字输出

● 8位



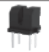
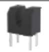
反射型_光电晶体管输出

● 8位



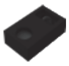
透过型光电断路器

线性光电晶体管输出

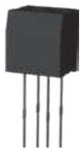
Package	Exterior	Part No.	Output type	Standard Characteristics								
				Detection Groove Width (mm)	Slit Width (mm)	I_C (mA)	V_{CE} (V)	I_F (mA)	tr, tf (μs)	Packing Specifications	Positioning	Remarks
Surface Mount type		New RPI-0128	Phototransistor	1.2	0.2	1.0 Min 5.0 Max	5	5	10	Taping		Ultra-Compact
		RPI-0125		1.2	0.3	0.45 Min 4.95 Max	5	20	10			Ultra-Compact
		RPI-0226		2.0	0.3	0.1 Min	5	5	50		✓	Compact
		RPI-0352E		3.0	0.4	0.18 Min	5	10	10		✓	Wide Gap, Energy Saving, High Efficiency
		RPI-0451E		4.5	0.5	0.16 Min	5	10	10		✓	Wide Gap, Energy Saving, High Efficiency
Lead type		RPI-122		0.8	0.25	0.18 Min 1.08 Max	0.7	3	10	Bulk		Ultra-Compact
		RPI-121		0.8	0.4	0.7 Min	5	20	10			Ultra-Compact
		RPI-125		1.2	0.3	0.45 Min 4.95 Max	5	20	10			Ultra-Compact
		RPI-221		2.3	0.4	0.2 Min	5	20	10			
		RPI-222		2.0	0.2	0.18 Min 0.95 Max	5	10	10			
		RPI-243		2.0	0.4	0.5 Min	5	20	10			
		RPI-246		2.0	0.2	0.35 Min 1.2 Max	5	20	10			
		RPI-352		3.0	0.4	0.2 Min	5	20	10		✓	Wide Gap
		RPI-441C1		4.0	0.5	0.2 Min	5	20	10		✓	Wide Gap
		RPI-441C1E		4.0	0.5	0.2 Min	5	10	10		✓	Wide Gap, Energy Saving, High Efficiency

反射型光电传感器

数字输出

Package	Part No.	Type	接口	Features	Visible Light Filter	Supply Voltage		Emitter Wavelength (nm)	Recommended Operating Distances (mm)
						V_{DD}/V_{CC} (V)	V_{LEDA}/V_{VCSELA} (V)		
 2.0×1.0×0.55t	New RPR-0720	SMD	Digital (I²C)	VCSEL Drvr. Proximity Sensor	Built-in Nose Cancellation Function	1.7 to 3.6	2.7 to 4.5	940	<10
 3.94×2.36×1.35t	RPR-0521RS	SMD	Digital (I²C)	LED Drvr. Proximity Sensor Ambient Light Sensor	Built-in Nose Cancellation Function	2.5 to 3.6	2.8 to 5.5	940	<50

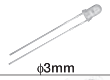
光电晶体管输出

Package	Part No.	Type	接口	Features	Visible Light Filter	Absolute maximum ratings		Emitter Wavelength (nm)	Focus Length (mm)
						I_F (mA)	V_{CEO} (V)		
 6.4×4.9×6.5t Wtihout Leadframe	RPR-220	DIP	Analog	Visible light filter	✓	50	30	940	6.0
 6.4×4.9×6.5t Wtihout Leadframe	RPR-220UC30N	DIP	Analog	Red LED	—	30	30	630	6.0

红外发光二极管(NIR：近红外线)

适用于遥控器送信机、光通信等，拥有丰富的产品系列。

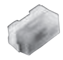
红外发光二极管

Package	Part No.	Type	Features	Absolute Maximum Rating	Standard Characteristics						
				I_F (mA)	I_E (mW/sr)	I_F (mA)	V_F (V)	I_F (mA)	λ_P (nm)	tr, tf (µs)	θ1/2 (deg)
 φ3mm	SIR-34ST3F	DIP	Optimized for remote controls	100	10.5	50	1.3	100	950	1	27
	SIR-341ST3F	DIP	Compact, high power	75	18.1	50	1.3	50	940	1	16
 φ5mm	SIR-56ST3F	DIP	Optimized for remote controls	100	15	50	1.3	100	950	1	15
	SIR-563ST3F	DIP	High power, Optimized for remote controls	100	21	50	1.34	50	940	1	15

表面贴装红外LED　顶面发光型

Package (mm)	Part No.	LED Chip	Emitting Color	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Rating (T_a=25°C)					
				Peak Wavelength λ_P		Radiant Intensity				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Voltage I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
				Typ (nm)	I_F (mA)	Min (mW/sr)	Typ (mW/sr)	Max (mW/sr)	I_F (mA)	Typ (V)	I_F (mA)	Typ (µA)	V_R (V)						
 1.0×0.6 (t=0.2)	New SML-P14RW	AlGaAs	Infrared	860	30	1.8	2.8	4.5	30	1.5	30	10	5	100	50	200[*1]	5	−40 to +85	−40 to +100
	New SML-P14R3W	AlGaAs	Infrared	940	30	1.8	2.8	4.5	30	1.5	30	10	5	100	50	200[*1]	5	−40 to +85	−40 to +100
 1.6×0.8 (t=1.24)	New CSL0902RT	AlGaAs	Infrared	850	20	2.8	4.6	5.6	20	1.4	20	10	5	60	30	100[*1]	5	−40 to +85	−40 to +100
	New CSL0902R3T	AlGaAs	Infrared	940	20	(2.8)	(4.6)	(7.1)	20	1.4	20	10	5	60	30	100[*1]	5	−40 to +85	−40 to +100
 1.6×0.8 (t=1.06)	New CSL1002RT	AlGaAs	Infrared	850	20	1.4	1.9	2.8	20	1.4	20	10	5	60	30	100[*1]	5	−40 to +85	−40 to +100
	New CSL1002R3T	AlGaAs	Infrared	940	20	(1.4)	(1.9)	(2.8)	20	1.4	20	10	5	60	30	100[*1]	5	−40 to +85	−40 to +100
 2.0×1.25 (t=0.8)	New SML-H15RT	AlGaAs	Infrared	850	20	1.8	2.2	2.8	20	1.4	20	10	5	60	30	100[*1]	5	−40 to +85	−40 to +100
 2.0×1.25 (t=0.8)	SML-M13RT	AlGaAs	Infrared	870	20	0.5	1.7	3.5	20	1.4	20	10	5	60	30	100[*1]	5	−40 to +85	−40 to +100
 3.0×1.5 (t=2.2)	SCM-013RT	AlGaAs	Infrared	850	20	0.5	2.0	5.0	20	1.4	20	10	5	57	30	300[*1]	5	−40 to +85	−40 to +100
 3.2×1.6 (t=1.85)	SML-S13RT	AlGaAs	Infrared	850	20	1.5	2.5	3.6	20	1.4	20	10	5	60	30	300[*1]	5	−40 to +85	−40 to +100
 3.2×1.6 (t=1.85)	SML-S15R2T	AlGaAs	Infrared	870	20	5.6	12	22	20	1.4	20	10	5	100	50	300[*1]	5	−40 to +85	−40 to +100

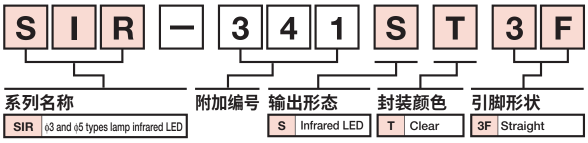
表面贴装红外LED　侧面发光型

Package (mm)	Part No.	LED Chip	Emitting Color	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Rating (T_a=25°C)					
				Peak Wavelength λ_P		Radiant Intensity				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Voltage I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (°C)	Storage Temperature Tstg (°C)
				Typ (nm)	I_F (mA)	Min (mW/sr)	Typ (mW/sr)	Max (mW/sr)	I_F (mA)	Typ (V)	I_F (mA)	Typ (µA)	V_R (V)						
 1.0×0.55 (t=0.5)	New CSL1501RW	AlGaAs	Infrared	860	30	1.9	2.5	3.4	30	1.5	30	10	5	100	50	200[*1]	5	−40 to +85	−40 to +100
	New CSL1501RT	AlGaAs	Infrared	860	30	1.9	2.5	3.4	30	1.5	30	10	5	100	50	200[*1]	5	−40 to +85	−40 to +100
	New CSL1501R3T	AlGaAs	Infrared	940	30	1.9	2.5	3.4	30	1.5	30	10	5	100	50	200[*1]	5	−40 to +85	−40 to +100

*1 Duty≤1/10, 1kHz

( ): 参考值

●品名构成说明



S I R – 3 4 1 S T 3 F

系列名称

SIR	φ3 and φ5 types lamp infrared LED

附加编号

输出形态

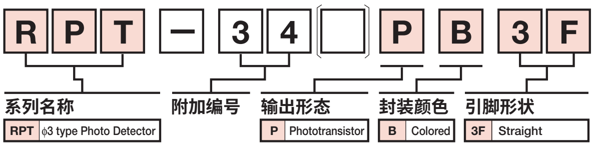
S	Infrared LED

封装颜色

T	Clear

引脚形状

3F	Straight



R P T – 3 4 P B 3 F

系列名称

RPT	φ3 type Photo Detector

附加编号

输出形态

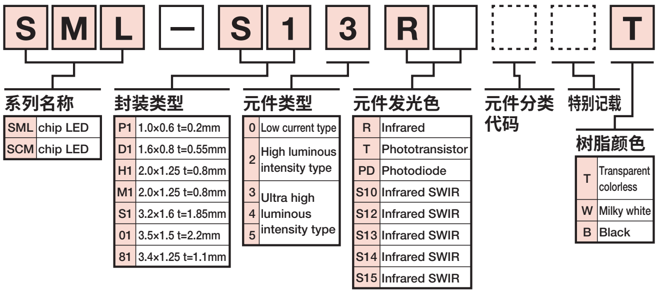
P	Phototransistor

封装颜色

B	Colored

引脚形状

3F	Straight



S M L – S 1 3 R T

系列名称

SML	chip LED
SCM	chip LED

封装类型

P1	1.0×0.6 t=0.2mm
D1	1.6×0.8 t=0.55mm
H1	2.0×1.25 t=0.8mm
M1	2.0×1.25 t=0.8mm
S1	3.2×1.6 t=1.85mm
01	3.5×1.5 t=2.2mm
81	3.4×1.25 t=1.1mm

元件类型

0	Low current type
2	High luminous intensity type
3 4 5	Ultra high luminous intensity type

元件发光色

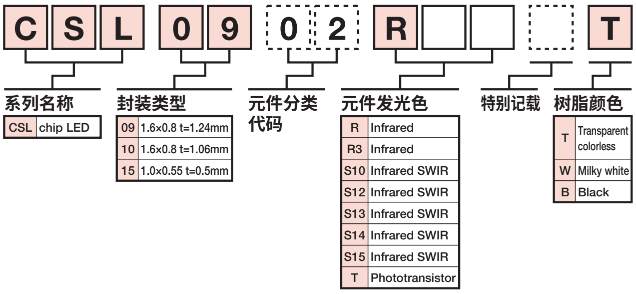
R	Infrared
T	Phototransistor
PD	Photodiode
S10	Infrared SWIR
S12	Infrared SWIR
S13	Infrared SWIR
S14	Infrared SWIR
S15	Infrared SWIR

元件分类代码

特别记载

树脂颜色

T	Transparent colorless
W	Milky white
B	Black



C S L 0 9 0 2 R T

系列名称

CSL	chip LED

封装类型

09	1.6×0.8 t=1.24mm
10	1.6×0.8 t=1.06mm
15	1.0×0.55 t=0.5mm

元件分类代码

元件发光色

R	Infrared
R3	Infrared
S10	Infrared SWIR
S12	Infrared SWIR
S13	Infrared SWIR
S14	Infrared SWIR
S15	Infrared SWIR
T	Phototransistor

特别记载

树脂颜色

T	Transparent colorless
W	Milky white
B	Black

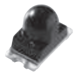
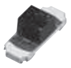
光电晶体管(NIR：近红外线)

罗姆的光电晶体管可用于高可靠性、高输出的各种小型精密仪器。

光电晶体管

Package	Part No.	Type	Feature	Visible Light Filter	Visible Light Filter		Standard Characteristics					
					V_{CEO} (V)	P_C Max (mW)	I_{CEO} Max (μA)	V_{CE} (V)	I_C (mA)	$λ_P$ (nm)	tr, tf (μs)	θ1/2 (deg)
 φ3mm	RPT-34PB3F	DIP	Visible light filter	✓	32	150	0.5	10	2.0 Min	800	10	36
	RPT-37PB3F	DIP	Visible light filter, Polarity discrimination	✓	32	150	0.5	10	2.0 Min	800	10	36
	RPT-38PB3F	DIP	Visible light filter	✓	32	150	0.5	10	2.0 Min	800	10	36

光电晶体管(NIR：近红外线)

Package (mm)	Part No.	LED Chip	Electrical and Optical Characteristics (T_a=25˚C)										Absolute Maximum Ratings (T_a=25˚C)					
			Light Current			Dark Current		Sensitivity Wavelength	Collector-Emitter Saturation Voltage				Collector-Emitter Voltage (V)	Emitter-Collector Voltage (V)	Collector Current (mA)	Collector Power Dissipation (mW)	Operating Temperature Topr (˚C)	Storage Temperature Tstg (˚C)
			Min (mA)	Max (mA)	V_{CE} (V) /$_E$ (Lx)	Max (μA)	V_{CE} (V)	$λ_P$ Typ (nm)	Min (V)	Typ (V)	Max (V)	I_C (mA) /$_E$ (Lx)						
 2.0×1.25 (t=0.8)	SML-H10TB	Si	2.0	4.0	5/ 500	0.5	10	800	—	—	0.4	0.1/ 500	32	5	30	80	−30 to +85	−30 to +100
 3.0×1.5 (t=2.2)	SCM-014TB	Si	0.3	3.8	5/ 500	0.5	10	800	—	—	0.4	0.1/ 500	32	5	30	100	−30 to +85	−30 to +100
 Reverse Mount Available 3.4×1.25 (t=1.1)	SML-810TB	Si	2.3	3.8	5/ 500	0.5	10	800	—	—	0.4	0.1/ 500	32	5	30	80	−30 to +85	−30 to +100

红外发光二极管(SWIR：短波红外线)

表面贴装红外LED

Package (mm)	Part No.	LED Chip	Emitting Color	Electrical and Optical Characteristics (T_a=25°C)										Absolute Maximum Rating (T_a=25˚C)					
				Peak Wavelength $λ_P$		Radiant Intensity				Forward Voltage V_F		Reverse Current I_R		Power Dissipation P_D (mW)	Forward Current I_F (mA)	Peak Forward Current I_{FP} (mA)	Reverse Voltage V_R (V)	Operating Temperature Topr (˚C)	Storage Temperature Tstg (˚C)
				Typ (nm)	I_F (mA)	Min (mW/sr)	Typ (mW/sr)	Max (mW/sr)	I_F (mA)	Typ (V)	I_F (mA)	Typ (μA)	V_R (V)						
 1.6×0.8 (t=1.24)	New CSL0901S10T	AlGaAs	Infrared	(1050)	50	(7.1)	(13)	(18)	50	1.2	50	10	5	150	80	100*1	5	−40 to +85	−40 to +100
	New CSL0901S13T	InAlGaAs	Infrared	(1300)	50	(3.6)	(6.0)	(9.0)	50	1.0	50	10	5	150	80	100*1	5	−40 to +85	−40 to +100

*1 Duty≦1/10, 1kHz

(　): 参考值

光电二极管(SWIR：短波红外线)

光电二极管(SWIR：短波红外线)

Package (mm)	Part No.	Electrical and Optical Characteristics (T_a=25˚C)					Absolute Maximum Rating (T_a=25˚C)		
		Photo Sensitive Area (um)	Sensitivity Wavelength (Typ) (nm)	Dark Current (nA) V_R=1V		Responsivity (A/W) $λ_P$=1550nm	Reverse Voltage (V)	Operation Temperature Topr (˚C)	Storage Temperature Tstg (˚C)
				Typ	Max				
 2.0×1.25 (t=0.8)	New SML-H10PD2B	ϕ200	1550	(0.04)	(0.80)	1	5	−25 to +85	−40 to +100

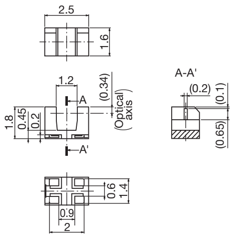
(　): 参考值

封装

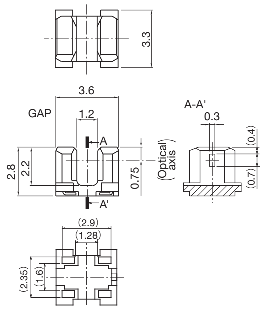
●外形尺寸图 (单位：mm)

＜透过型光电断路器＞

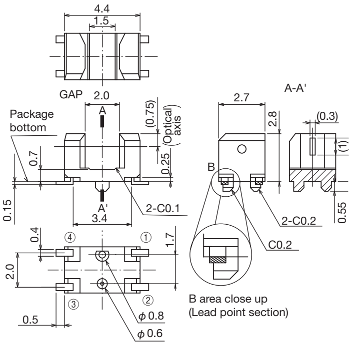
●RPI-0128



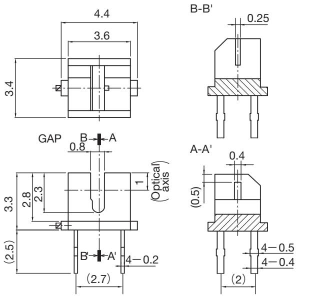
●RPI-0125



●RPI-0226



●RPI-122



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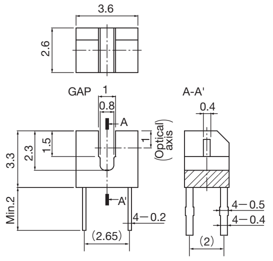
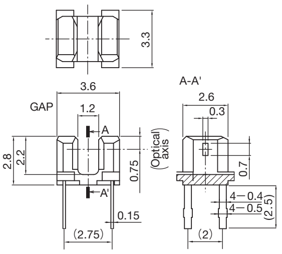
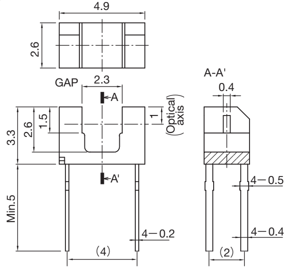


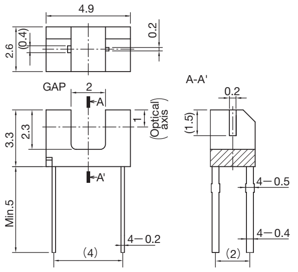
●RPI-125



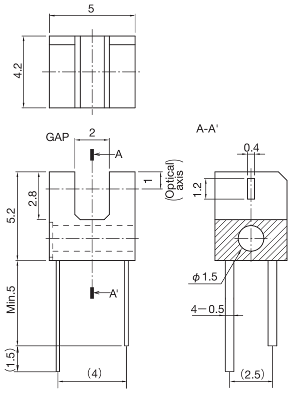
●RPI-221



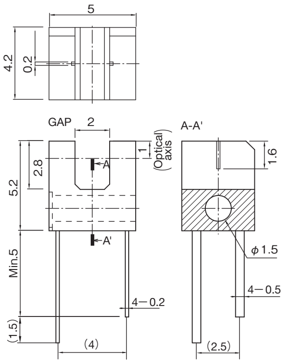
●RPI-222, RPI-222G



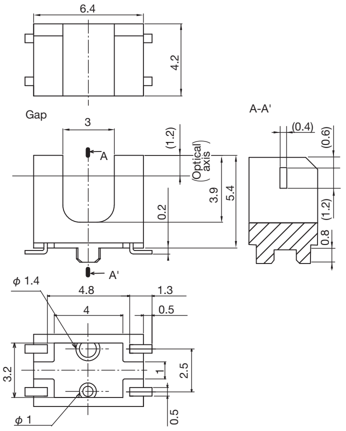
●RPI-243



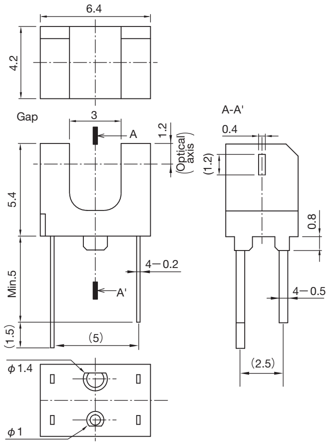
●RPI-246



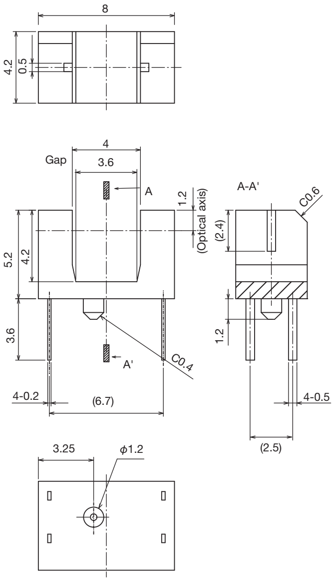
●RPI-0352E



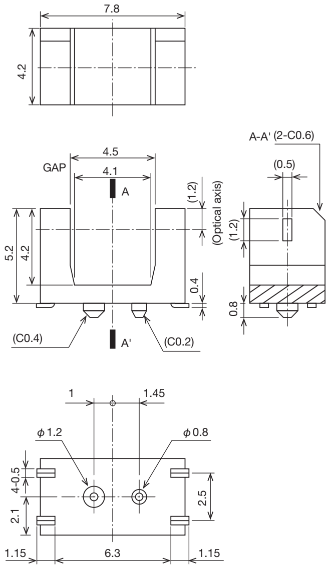
●RPI-352



●RPI-441C1, RPI-441C1E



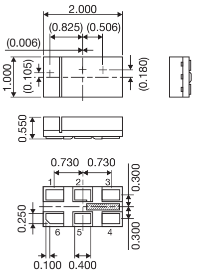
●RPI-0451E



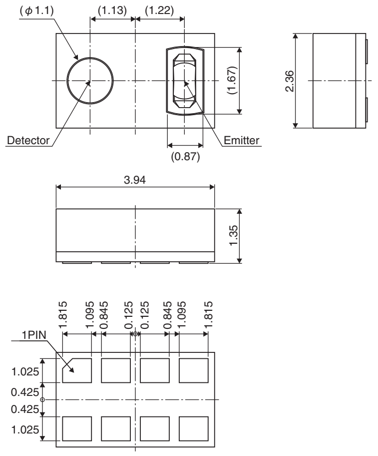
●外形尺寸图 (单位：mm)

＜反射型光传感器＞

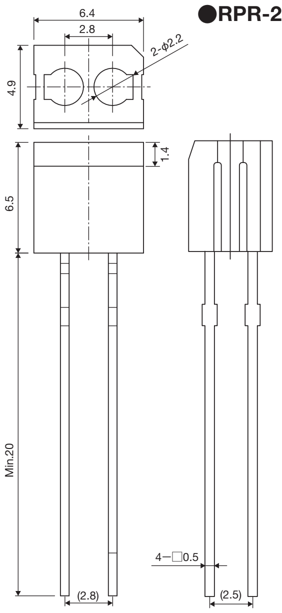
●RPR-0720



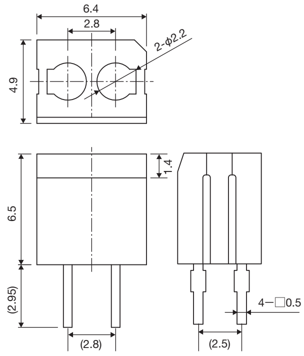
●RPR-0521RS



●RPR-220

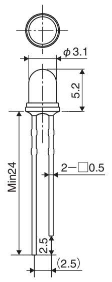


●RPR-220UC30N

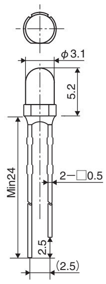


＜光电晶体管＞

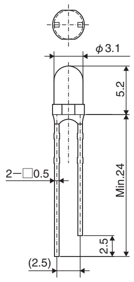
●RPT-34PB3F



●RPT-37PB3F

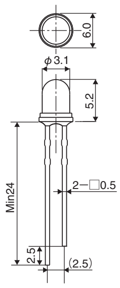


●RPT-38PB3F

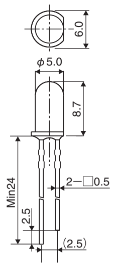


＜红外发光二极管＞

●SIR-34ST3F/341ST3F

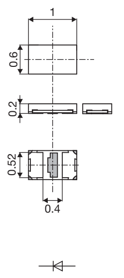


●SIR-56ST3F/563ST3F

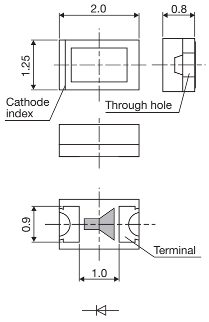


＜NIR：近红外线/SWIR：短波红外线＞

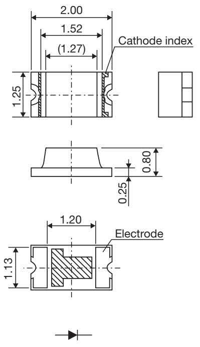
●SMLP14 series (PICOLED^{TM})



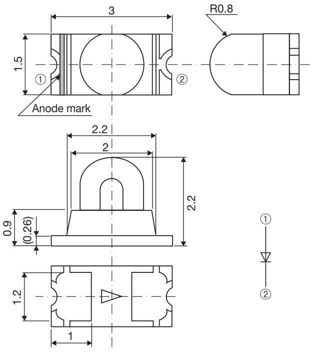
●SML-M1/MN series



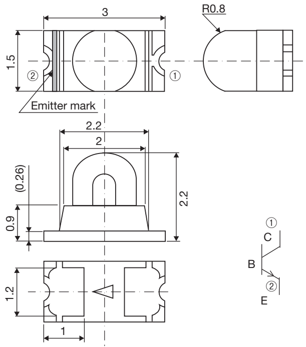
●SML-H10/H15 series



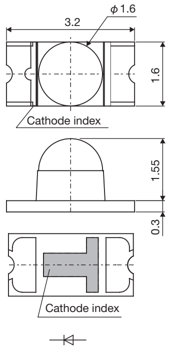
●SCM-013RT



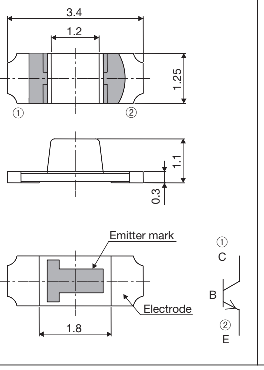
●SCM-014TB



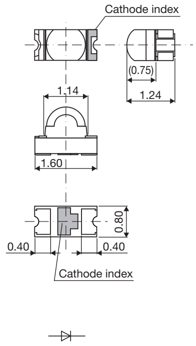
●SML-S1 series



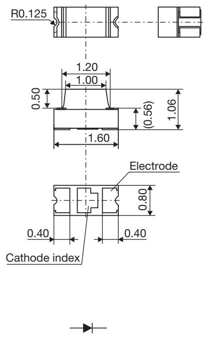
●SML-810TB



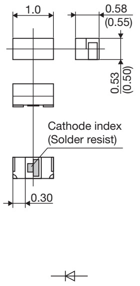
●CSL09 series



●CSL10 series



●CSL15 series

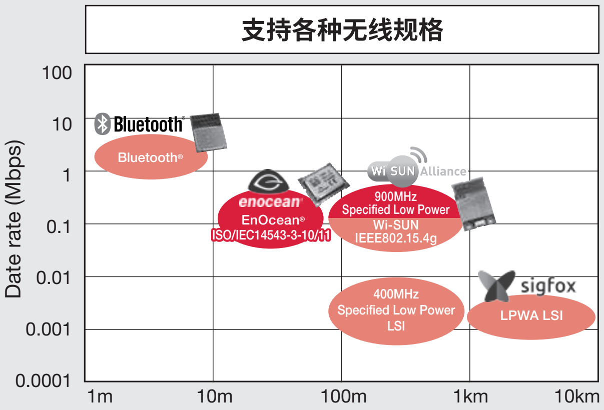


无线通信模块

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

关于罗姆的无线通信技术

罗姆集团进行广泛的近距离无线通信元器件研发



Wi-SUN 通信模块 (特定小功率通信模块)

- 920MHz频段 特定小功率无线模块
- 先进接收灵敏度
- 内置天线无需高频设计
- 发送功率已调整完毕
- MAC地址已写入完毕
- 已获得日本电波法认证
- 使用LAPIS Technology生产的LSI

Built-in antenna

BP35A1

Surface mount

BP35C0

BP35C0-J11

BP35C5

Wi-SUN通信模块(特定小功率通信模块)

Part No.	Supply Voltage (V)	Operating Temperature (°C)	Host I/F	Compatible Standards	Radio law Certification	外形尺寸图 (mm)	Pakcage
BP35A1	2.7 to 3.6 (Single power)	−20 to +80	UART	Wi-SUN Route-B	TELEC	22.0×33.5×3.9	Connector joint type 0.5mm pitch, 20pin
BP35C0	2.6 to 3.6 (Single power)	−30 to +85	UART	Wi-SUN Route-B/HAN	TELEC	15.0×19.0×2.6	SMD 1.27mm pitch, 28pin
BP35C0-J11	2.6 to 3.6 (Single power)	−30 to +85	UART	Wi-SUN Route-B/HAN/ Enhanced HAN	TELEC	15.0×19.0×2.6	SMD 1.27mm pitch, 28pin
BP35C5	2.6 to 3.6 (Single power)	−30 to +85	UART	Wi-SUN FAN	TELEC/FCC	15.0×19.0×2.6	SMD 1.27mm pitch, 30pin

Bluetooth® 模块


MK71511-NNN

- 超低消耗电流，适用于需要延长硬币电池和纽扣电池寿命的设备
- 支持Bluetooth® low energy单通道的模块
- 内置图形天线，出货时已调整无线特性
- 已通过的电波法认证：日本电波法认证、FCC、ISED、CE
- 已获得Bluetooth® 认证

Bluetooth® low energy模块 (LAPIS Technology产品)

Part No.	Supply Voltage (V)	Operating Temperature (°C)	Host I/F	Bluetooth Certification	Radio law Certification	Module Specification	Built-in Flash/RAM	Built-in Crystal Oscillator	Built-in Antenna	Dimension (mm)	Package
MK71511-NNN	1.7 to 3.6	−40 to +85	UART SPI	Ver5.4 (Single mode) QDID: 146733 (RF-PHY Component)	TELEC/FCC/ ISED/CE	Role: Master/Slave Application: Blank	Flash: 192KB RAM: 24KB	32MHz 32.768kHz	Pattern	9.7×13.4×2.0	M-FLGA54-9.7X13.4-0.80-9Y
MK71511A-NNN								32MHz			M-FLGA54-9.7X13.4-0.80-9Y
MK71521-NNN				Ver5.4 (Single mode) QDID: 146740 (RF-PHY Component)			Flash: 512KB RAM: 64KB	32MHz 32.768kHz			M-FLGA54-9.7X13.4-0.80-9Y
MK71521A-NNN								32MHz			M-FLGA54-9.7X13.4-0.80-9Y

Bluetooth® 是Bluetooth® SIG的注册商标。

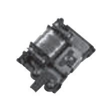
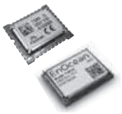
EnOcean® 通信模块

EnOcean® 通信模块是利用环境发电的无需电池的无线通信模块。

- 支持EnOcean®通信标准(ISO/IEC 14543-3-10/11)
- 内置天线无需高频设计
- 已获得日本电波法认证

*本产品已获得日本电波法认证，可作为928MHZ频带特定小功率无线电台使用。

EnOcean® 通信模块、元器件

Frequency Band	Use Target Area	Products								
		Energy converter for motion energy harvesting (for the switch module)	Transmitter module (for switch module)	Push button multi-channel switch module	Energy harvesting wireless transceiver module	Programmable transceiver module	Energy harvesting magnet contact module	Energy harvesting temperature sensor module	Humidity sensor module	Receiver USB module
										
928MHz	Japan	ECO 260	PTM 535J	PTM 215J	STM 400J	TCM 410J/ TCM 515J	STM 429J	STM 431J	HSM 100	USB 500J
868MHz	Europe･China	ECO 260	PTM 535	PTM 210/ PTM 215	STM 300	TCM 310/ TCM 515	STM 329	STM 331	HSM 100	USB 300
902MHz	North America	ECO 260	PTM 535U	PTM 215U	STM 300U	TCM 310U/ TCM 515U	STM 320U	STM 331U	HSM 100	USB 500U
921MHz	Asia	ECO 260	–	–	–	–	–	STM 431T	HSM 100	USB 500T

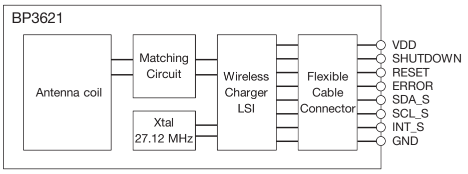
*EnOcean® 是EnOcean GmbH的注册商标。

13.56MHz(NFC)无线充电模块

13.56MHz无线充电模块是搭载天线的电路板一体化模块。可大幅减少天线设计和匹配调整的开发工时，轻松实现无线充电功能。有助于实现可穿戴式设备及IoT设备等所需的小型、无连接器、防水防尘等框体的设计。

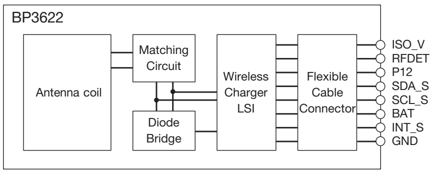
BP3621

(输电模块)



BP3622

(受电模块)



大范围供电型13.56MHz无线充电输电模块

Part No.	Transmitter/ Receiver	Module type	Module size (mm)	Weight (g)	Supply Voltage (V)	Output Power (Max) (mW)	Feeding Distance (d) (mm)	Operating Temperature (°C)	Interface
BP3621	Power Transmitter	Wide Range type	35.0×26.0×1.5	0.80	4.5 to 5.5	–	10	−10 to +50	8pin, 0.5mm pitch, FPC connector

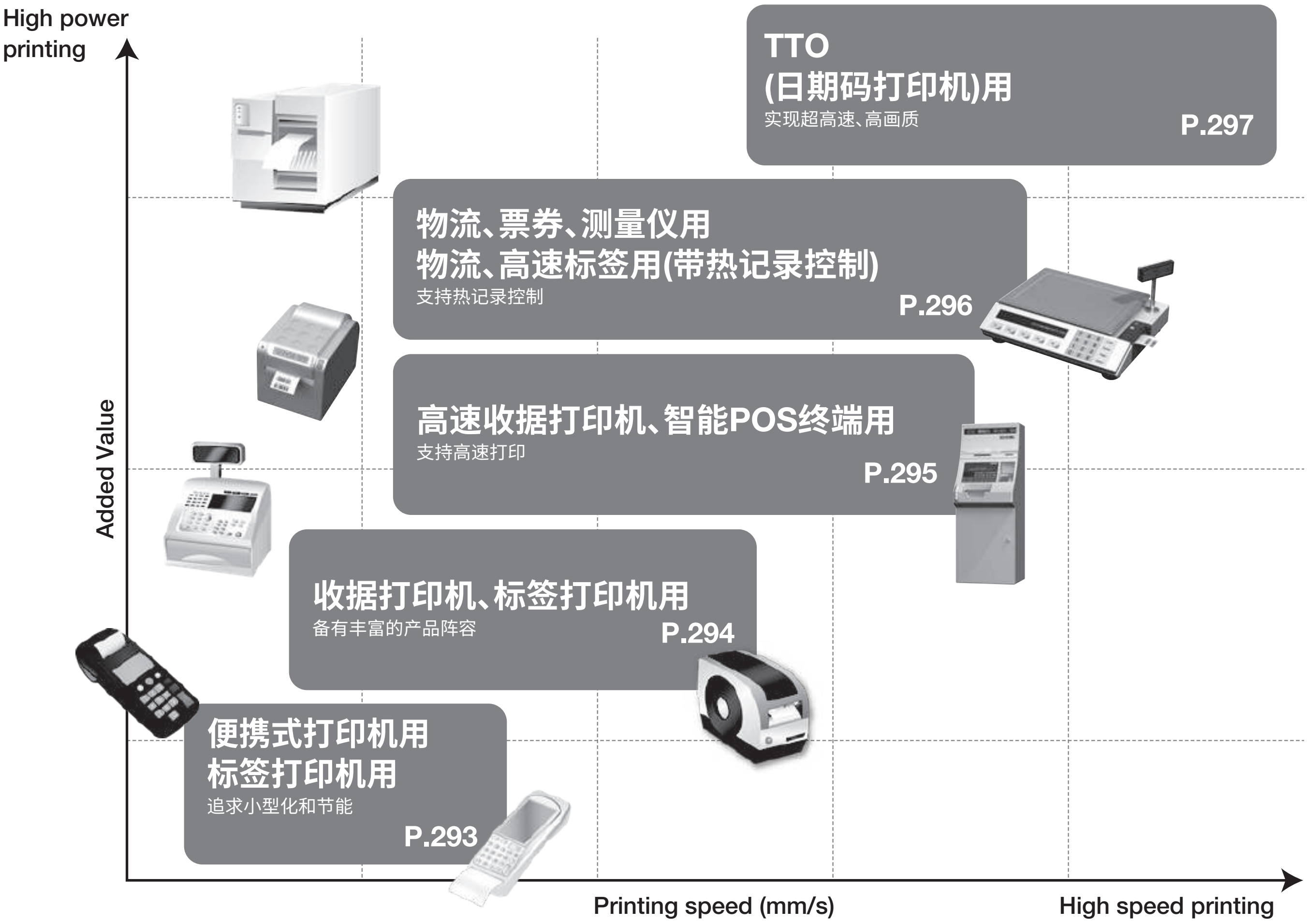
大范围供电型13.56MHz无线充电受电模块

Part No.	Transmitter/ Receiver	Module type	Module size (mm)	Weight (g)	Supply Voltage (V)	Output Power (Max) (mW)	Feeding Distance (d) (mm)	Operating Temperature (°C)	Interface
BP3622	Power Receiver	Wide Range type	24.0×17.0×1.5	0.38	–	200	10	−10 to +50	8pin, 0.5mm pitch, FPC connector

热敏打印头

点击图标即可链接至罗姆官网的产品介绍页面。可通过官网确认最新情况。

选型指南



产品种类丰富，可针对打印宽度、打印密度、接口等各种要求提供方案。
对于产品阵容中没有的产品，请咨询罗姆的销售窗口。

品名构成说明

型号总位数为13位时

K D 2 0 0 4 – D 1 F W 0 0 A

打印头结构　打字密度　打字宽度　系列选项　识别编号

打印头结构
例)

KA/ KR	Flat structure, Full glaze
KD	Flat structure, Partial glaze
SH	Near-edge sturucture, Partial glaze

etc.

打字密度
例)

10	100dpi
15	150dpi
18	180dpi
20	203dpi
30	300dpi
36	360dpi
60	600dpi

etc.

打字宽度
例)

01	1inch
02	2inch
03	3inch
04	4inch
05	5inch
06	6inch
08	8inch
10	10inch

系列选项
例)

DA	Both side type connectors with Heatsink
D1	Both side type connectors without Heatsink

etc.

识别编号

型号总位数为11位时

K D 2 0 0 4 – D F 1 0 A

打印头结构　打字密度　打字宽度　系列选项　识别编号

打印头结构
例)

KA/ KR	Flat structure, Full glaze
KD	Flat structure, Partial glaze
SH	Near-edge sturucture, Partial glaze

etc.

打字密度
例)

10	100dpi
15	150dpi
18	180dpi
20	203dpi
30	300dpi
36	360dpi
60	600dpi

etc.

打字宽度
例)

01	1inch
02	2inch
03	3inch
04	4inch
05	5inch
06	6inch
08	8inch
10	10inch

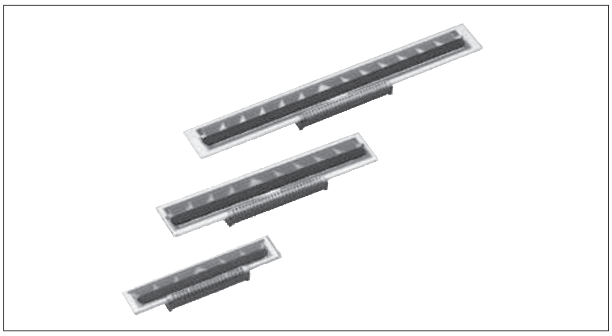
系列选项
例)

DF	Both side type connectors with Heatsink
DG	Center type connector with Heatsink

etc.

识别编号

便携式打印机用系列



■特性

除了 7.2V 锂离子电池驱动的标准产品外，还增加了 4.2V 驱动的节能型和 12V 驱动的高速打印型产品，可满足设备的多样化需求。

■应用

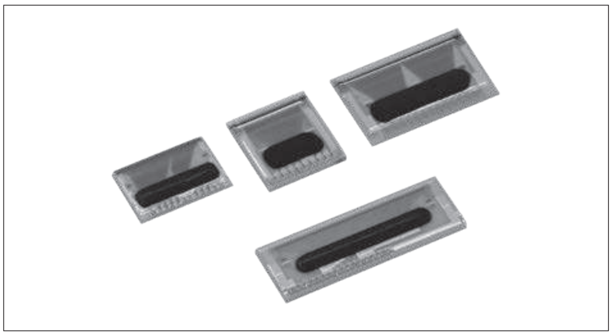
适用于电压低且电流容量有严格限制的便携式打印机和要求小型、节能的 EFT-POS 终端、收据打印机、小型标签打印机等。

便携式打印机用系列

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltagae (V_{DD})	Connector type	Abrasion life (km)	Pulse life (million pulses)
KR2002-D06B71A	203	48	384	80	8	100	4.2	2.70 to 5.25	–	50	100
KR3002-B06N1BA	300	48.787	576			50					
KA2002-B05B70A	203	48	384	176		100	7.2				
KA2002-H05N00A											
KA2002-B35N00A									Flat Cable		
KA2003-B35N00A		72	576								
KA2003-H05N20A					14				–		
KA2004-D35N90A		104	832		8				Flat Cable		
KA2004-H05N20A					14				–		
KA3002-B05N00A	300	48.787	576		8	75					
KA3003-H05N20A		73.181	864		14						
KA3004-303N00A		108.416	1280	210		100		3.30 to 5.25			
KD2002-G0JB10A	203	48	384			150	12	2.70 to 5.25			50
KA3008-C03N10A	300	219.542	2592	395		100	14				100

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

标签打印机用系列



■特性

采用罗姆自创的结构，为打印机的小型、轻量化作出贡献。
在与标签的接触性好，而且耐腐蚀性强、可靠性优异的厚膜结构的基础上，采用能量转换效率优异的发热体，有助于电池长时间驱动。

■应用

适于为整理收纳标签、名称标签、包装带等打印的标签打印机。

标签打印机用系列

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltagae (V_{DD})	Connector type	Abrasion life (km)	Pulse life (million pulses)
KL0643-BB11A	180	9.024	64	281	14	50	7.2	3.00 to 5.25	–	30	50
KL2000-E0KN60A	203	12	96	142	17			2.70 to 5.25		50	
KL1801-DB92A	180	18.048	128	400	14			4.75 to 5.25		30	
KA2001-B05N30	203	24	192	123				2.70 to 5.25		50	100

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

收据打印机、标签打印机用系列

■特性

通过采用适合各种打印速度和媒介的发热体结构，兼顾打印品质和节能性。采用高频时钟，还可支持高级控制功能。

■应用

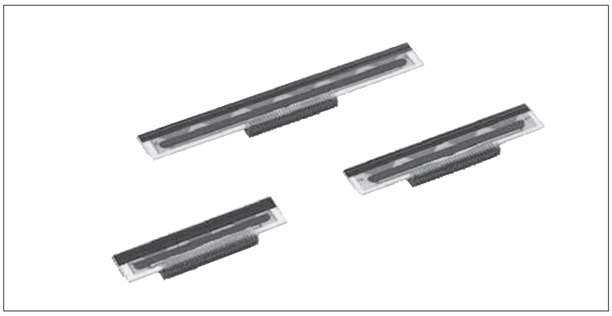
适合用于在各领域广泛使用的 POS 终端、ATM 机等的收据打印机、标签打印机，以及老虎机、彩票打印机。

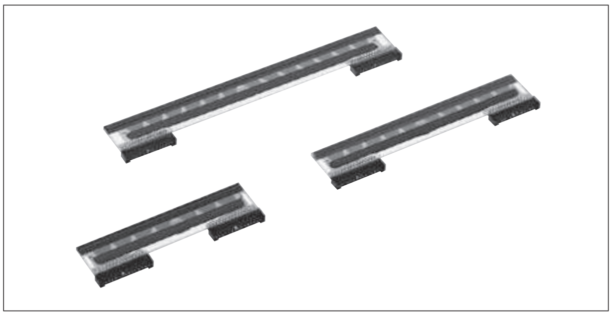
收据打印机、标签打印机用系列

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltagae (V_{DD})	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)
KD2002-CAFW00A	203	54	432	800	14	150	24	3.13 to 5.25	Wire Cable	YES	150	100
KD2003-CAFW00A		72	576									
KD2004-C1GW00A		108	864							NO		
KD2002-LEFW00A		54	432		20				Flat Cable	YES		
KD2003-CG11A		72	576									
KD2004-CG11A		108	864									
KD2008-CF10A		216	1728	1000		100			Wire Cable		50	50
KD2008-CF16A				800		125						
KD3008-CF10A	300	219.542	2592	1250		100						100
KD2008-CG50A	203	216	1728	800		150		4.75 to 5.25	Flat Cable			50
KD2003-L0GBA0A		72	576		12	200		3.13 to 5.25	–	NO		

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

高速收据打印机、智能POS终端用系列





■特性

采用支持高速打印的自创的发热体结构，实现高速打印和清晰的打印效果。对各种媒介实现高画质打印。

■应用

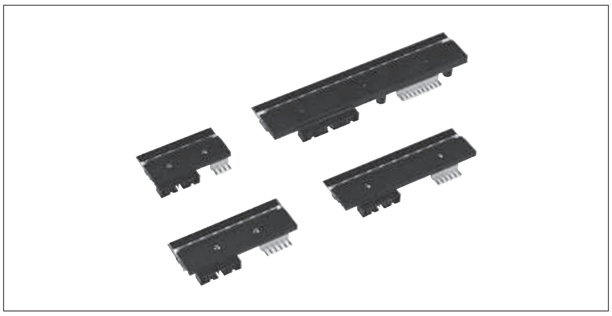
适用于支持高速打印的智能 POS 机、ECR 打印机和厚纸小型标签打印机。

高速收据打印机、智能POS终端用系列

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltagae (V_{DD})	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)
KD2002-D5FW00A	203	56	448	650	20	250	24	3.13 to 5.25	Wire Cable	NO	150	100
KD2003-F0GB00A		80	640		14				–		50	50
KD2003-F0FW00A											150	100
KD2004-D0GW00A		104	832		20							
KD2005-UAGX00A		144	1152	800		125		4.75 to 5.25	Wire Cable	YES	50	50
KD3002-KAFW00A	300	54.208	640	1000	18	200		3.13 to 5.25			150	100
KD3002-GEFW00A					14	250			Flat Cable			
KD3003-K5FW00A		81.312	960		20	200				NO		
KD3003-KAFW00A					18				Wire Cable	YES		
KD3004-KAGW00A		108.416	1280									
KD3008-DF54A		216.832	2560	660	25	100		4.75 to 5.25				

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

物流、票券、测量仪用系列



■特性

该系列是通过采用支持高速打印的发热体结构和高耐久性保护膜，以及支持大电流的结构，来满足工业设备所要求的高可靠性。

■应用

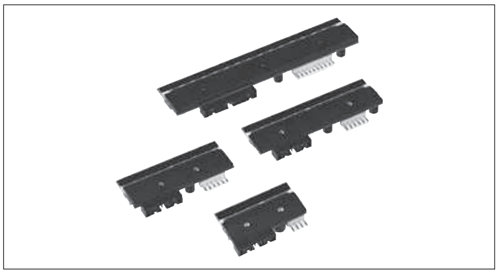
适用于室外使用和连续出票的售票机和标签打印机、食品测量仪等。

物流、票券、测量仪用系列

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltagae (V_{DD})	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)
KD2002-TQFW00A	203	56	448	550	20	250	24	3.13 to 5.25	Wire Cable	YES	150	100
KD2003-TQFW00A		80	640									
KD2004-TQFW00A		104	832									
KD2006-TQFW00A		168	1344									
New **TE2004-QP1W00A**		104	832	570		500						
KD3002-TQFW00A	300	54.208	640	850		250						
KD3003-TQFW00A		81.312	960									
KD3004-TQFW00A		108.416	1280									
KD3006-TQFW00A		162.624	1920									
TE3004-TP1W00A		105.706	1248	570		500						

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

物流、高速标签用系列(带热记录控制)



■特性

适用于需要高打印品质的工业设备用条形码打印机等。该系列可通过发热记录控制各发热体的发热时间。

■应用

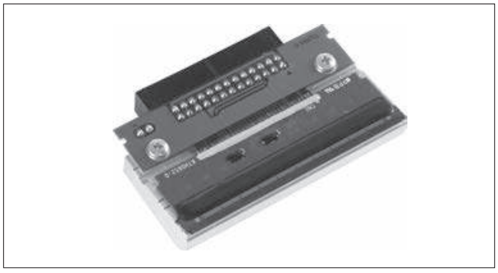
适用于需要进行 24 小时工作和长时间连续打印的工厂装配流水线和物流中心等的条形码打印机。

物流、高速标签用系列(带热记录控制)

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltagae (V_{DD})	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)
KD2002-RQFW00A	203	56	448	550	20	300	24	3.13 to 5.25	Wire Cable	YES	150	100
KD2003-RQFW00A		80	640									
KD2004-RQFW00A		104	832									
KD2006-RQFW00A		168	1344									
KD3002-RQFW00A	300	54.208	640	850								
KD3003-RQFW00A		81.312	960									
KD3004-RQFW00A		108.416	1280									
KD3006-RQFW00A		162.624	1920									

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

TTO(日期码打印机)用系列



■特性

该热敏打印头即使使用难以高速打印、耐刮擦性优异的树脂色带，也能进行超高速打印并得到高品质画质。

■应用

适于为物流管理和无人收银机所使用的电子标签、环保型包装材料和复杂的物流管理所需要的日期码标签等打印的标签打印机。有助于在食品加工现场、物流现场提高生产效率。

TTO(日期码打印机)用系列

Part No.	Resolutions (dpi)	Print Width (mm)	Number of dot (dots)	Resistance variation (Ω)	Platen diameter (Max) (mm)	Print Speed (mm/s)	Print voltage (VH)	Logic Voltagae (V_{DD})	Connector type	Heat sink	Abrasion life (km)	Pulse life (million pulses)
TH3001-2P1W00A	305	31.987	384	570	50	1000	24	3.13 to 5.25	Wire Cable	YES	150	100
TH3002-2P1W00A		53.312	640									

可按客户要求定制热敏打印头。详情请咨询罗姆的销售代表。

MEMO

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品名索引

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