LEDCD017SXXXM Series



17W, 9-36Vdc Input, Constant Current, DC-DC LED Driver



Features

- Power Rating: 17W
- Input Voltage: 9-36Vdc •
- Constant current design .
- Output current(350mA) •
- Efficiency up to 89.5% •
- PWM/digital dimming and analog voltage dimming •
- SCP, OVP •
- Fully isolated plastic case •
- 12V and 24V lighting systems applications •
- 2-year warranty ٠

Application

• Indoor or outdoor lights

Model List*(See part number scheme for model number details)



*Product images are for illustrative purposes only and may vary from actual design.

Model Number	Input Voltage Range	Output Power	Output Voltage	Output Current Min.	Output Current Max.	Efficiency	Certification
LEDCD017S035M	9-36Vdc	16.8W	14-48V	350mA	350mA	89.5%	CE

Technical Data

DC Voltage Range	14-48V				
Rated Current	350mA				
Current Tolerance	±5%				
Rated Max. Power	16.8W				
Ripple & Noise (Max.)	0.60Vp-p				
Max. Efficiency	89.5% Full Load				
Input Voltage	9V-36V (38V for 0.1sec.)				
VDIM input voltage	0.4-1.7V				
range					
VPWM Control voltage range	1.7-5V				
PWM Frequency range	100~100KHz				
Adjust Output current	0%-100%				
Protection: Short Circuit	Automatic Recovery				
Protection: Over Voltage	<52.5V				
Operating Temp.	-40°C to 75°C				
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Technical Data(cont.)

Operating Humidity	20% to 95% RH non-condensing			
Storage Temp.	-55°C to +125°C			
Storage Humidity	10% to 95% RH			
Connection Module	8 Pin package			
MTBF	100K hours min. MIL-HDBK-217F(25°C)			
Dimension LxWxH	51.5x26.1x15.8mm; 2.02x1.02x0.62in			

Notes:

- 1. To prevent the driver from burning out, the output voltage must be 5Vdc higher than the input voltage.
- 2. Do not operate the driver over 16.8W output.
- The output ripple is low, it is recommended to not increase the output capacitor, this could cause a turn on delay 3. under colder temperatures.
- 4. If the output should cause a short to occur, input current will be cut off and begin to recover while the short is removed.
- 5. Under Voltage protection will occur if the input voltage is lower than 7.6V at a cool start and full discharge of output.
- 6. PWM dimming means PWM signals are converted into a mimic analog voltage by internal circuits thus doing the dimming. This helps to reduce the EMI

Safety/EMC

EMI Conduction & Radiation

Meet EN55022 class B

Disclaimer:

Autec Power Systems' (Autec) LED Drivers are Hi-Pot tested during the manufacturing process. Autec assumes no responsibility for secondary Hi-Pot testing at customer location or designated production line(s). Should customer require further Hi-Pot testing, at their own production line, following assembly of the LED Driver into the customer's assembled fixture, Autec requests advance notice. This request must be communicated to Autec in a timely manner and is recommended to be requested at time of issuing each purchase order.

Mechanical Specification









	PIN CONNECTIONS						
	PIN#	CONNECTIONS					
1		+Vi	+DC Supply				
	2	DIM	PWM/ Analog Dimming Control				
	3	EN	Remote ON/OFF				
	4	-Vi	-DC Supply (GND)				
	5	+ LED	LED Anode Connection				
	6	- LED	LED Cathode Connection				

All dimensions are typical in millimeters (inches)

1. Pin diameter: 1.0 ±0.05 (0.04 ±0.002)

2. Pin pitch tolerance: ±0.35 (±0.014)

3. Case Tolerance: ±0.5 (±0.02)

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Wiring Diagram



Derating Curve



Static Characteristics





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Dimming Curve



PWM Dimming









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*Specifications are subject to change without notice. Autec is not responsible for issues arising from errors or omissions.