mEZD81225A

4V to 16V Input, 25A, DC/DC Power Supply

FEATURES

- 4V to 16V Input Voltage
- 25A Load Current
- 0.6V to 5V Output Voltage
- Multiphase Operation for Up to 250A
- Over Temperature Protection
- Over Current Protection
- Over/Under Voltage Protection

ORDERING INFORMATION

Part Number	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Efficiency
mEZD81225A-0001	4-16	1.2	25	Up to 90%
mEZD81225A-xxxx	4-16	Customizable	25	Up to 90%

Power Derating

V_{IN} = 12V, V_{OUT} = 1V

TBD

mEZD812XX FAMILY PRODUCTS

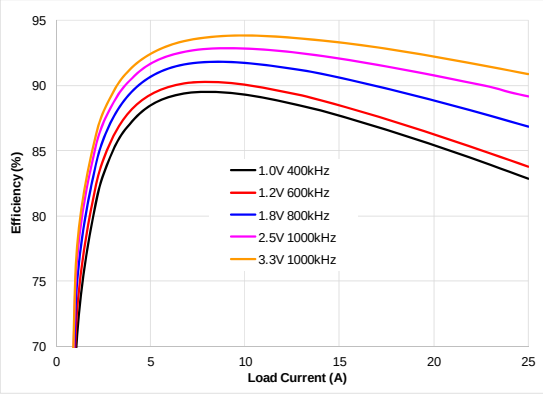
Part Number	Input Voltage (V)	Output Voltage (V)	Output Current (A)
mEZD81225A	4-16	0.6-5	25
mEZD81260A	5-16	0.5-6.5	Dual 30A or Single 60A

ELECTRICAL CHARACTERISTICS

Input Voltage Range	V_{IN} Continuous	4 to 16V
Output Voltage Set Accuracy		±0.5% (typ)
Output Voltage Ripple	V_{IN} = 12V, V_{OUT} = 1V, full load	18.8mVpp
Line Regulation	V_{IN} from MIN to MAX, V_{OUT} = 1V	±0.5% (typ)
Load Regulation	I_{OUT} from MIN to MAX, V_{OUT} = 1V	±0.5% (typ)
Efficiency	V_{IN} = 12V, V_{OUT} = 1V, 25A, 400kHz	83%
Switching Frequency	Typical switching frequency	400kHz
Short-Circuit Protection	Default setting	Hiccup mode
Operating Temperature Range		-40 to 85°C
Over-Temperature Protection	OTP	155°C
Rise Time	V_{OUT} from 0% to 90%	1.2ms (typ)
Calculated MTBF	MIL-HDBK-217F	4185x10^3 hrs

Efficiency vs. Load Current

V_{IN} = 12V



NOTE: All electrical characteristics are tested under 25°C ambient temperature, V_{IN} = 12V unless otherwise noted.

Please email "productinfo@monolithicpower.com" for more information

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