

Surface Mount Silicon Rectifier Rectifier Reverse Voltage 2000V



Features

- Ideal for surface mount application
- Surge overload rating to 30A peak
- Plastic material has UL recognition flammability classification 94V-0
- Buit-in strain relief

Mechanical Data

Case: Molded plastic

Terminals: Solder plated solderable per MIL-STD-202F,

Method 208

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.063grams (approx)

0.060(1.52)

SMA / DO-214AC

Dimensions in inches and (millimeters)

Maximum Ratings & Thermal CharacteristicsRating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz. For Capacitive load derate current by 20%.

Parameter	Symbol	M520	unit
Maximum repetitive peak reverse voltage	VRRM	2000	V
Maximum RMS bridge input voltage	VRMS	1600	V
Maximum DC blocking voltage	VDC	2000	V
Maximum average forward rectified output current at TA=100°C	IF(AV)	1.0	А
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	30.0	А
Typical thermal resistance per element (1)	ReJA	28	°C/W
Typical junction capacitance per element (2)	Cj	10	pF
Operating junction and storage temperature range	TJ, TSTG	-65 to + 150	°C

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz. For Capacitive load derate by 20 %.

Parameter	Symbol	M520	Unit
Maximum instantaneous forward voltage drop per leg at 1.0A	VF	1.2	V
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C	IR	2.0 100	μΑ

Notes: (1)Thermal resistance from Junction to Ambemton P.C.board mounting. (2)Measured at 2.0MHz and applied reverse voltage of 4.0 volts.

Rating and Characteristic Curves ($TA=25^{\circ}c$ Unless otherwise noted) M520

Fig. 1 Derating Curve for Output Rectified Current

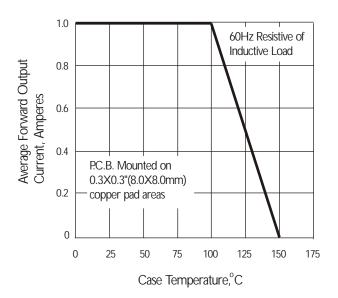


Fig. 3 Typical Instantaneous Forward Characteristics

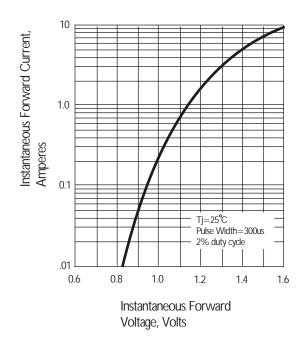


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

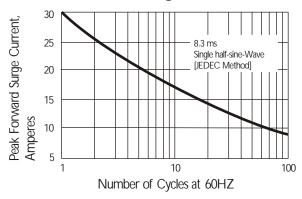


Fig. 4 Typical Reverse Characteristics

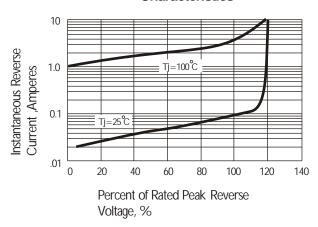
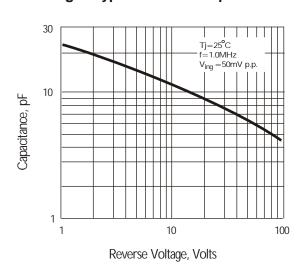


Fig. 5 Typical Junction Capacitance



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