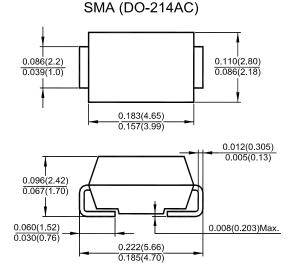
M1G THRU M7G-HAF

Surface Mount General Rectifier Reverse Voltage – 50 to 1000 V Forward Current – 1 A

Features

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- Halogen and Antimony Free(HAF), RoHS compliant



Dimensions in inches and (millimeters)

Mechanical Data

- Case: SMA (DO-214AC), molded plastic.
- Terminals: Solder plated, solderable per MIL-STD-750 Method 2026
- Polarity: Indicated by cathode band.

Absolute Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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Paramter	Symbols	M1G	M2G	M3G	M4G	M5G	M6G	M7G	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1							А
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							A
Maximum Instantaneous Forward Voltage at 1 A	VF	1.1							V
Maximum DC Reverse Currentat $T_A = 25 \text{ °C}$ at Rated DC Blocking Voltageat $T_A = 125 \text{ °C}$	I _R	5 50							μA
Typical Junction Capacitance 1)	CJ	15							pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	75							°C/W
Operating and Storage Temperature Range	T_{J}, T_{Stg}	- 55 to + 150							°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

 $^{2)}$ P.C.B. mounted with 1.0 X 1.0" (2.54 X 2.54 cm) copper pad areas.

M1G THRU M7G-HAF

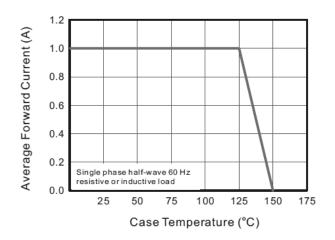


Fig.1 Forward Current Derating Curve



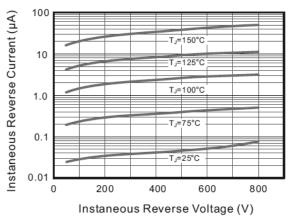


Fig.3 Typical Forward Characteristic

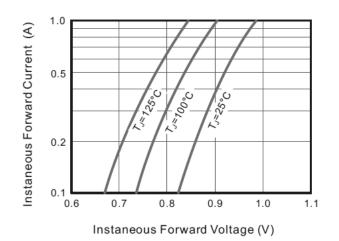


Fig.4 Typical Junction Capacitance

