M1 THRU M7

SURFACE MOUNT GENERAL PURPOSE PLASTIC RECTIFIER

Reverse Voltage – 50 to 1000 V

Forward Current - 1 A

Features

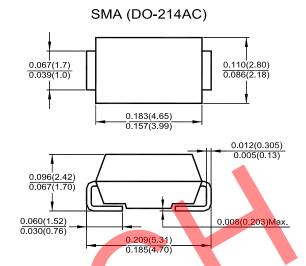
- For surface mounted applications
- · Low profile package
- · Built-in strain relief
- · Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

Mechanical Data

Case: SMA (DO-214AC), molded plastic
Terminals: Solder plated, solderable per

MIL-STD-750, method 2026

· Polarity: Indicated by cathode band



Dimensions in inches and (millimeters)

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%.

Developed to	O wash alla	144	140	N 40	N 4 4	N 4 5	N.40	147	1.1
Parameter	Symbols	M1	M2	МЗ	M4	M5	M6	M7	Units
Maximum Repetitive 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 at T _L = 100 °C	$I_{(AV)}$	1							Α
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30						Α	
Maximum Instantaneous Forward Voltage at 1 A	V_{F}	1.1							V
Maximum DC Reverse Current $T_A = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_A = 125 ^{\circ}\text{C}$	I _R	5 200							μA
Typical Junction Capacitance 1)	CJ	15							pF
Maximum Thermal Resistance 2)	R _{0JL}	30							°C/W
Operating and Storage Temperature Range	T _J , T _{Stg}	- 50 to + 150							°C

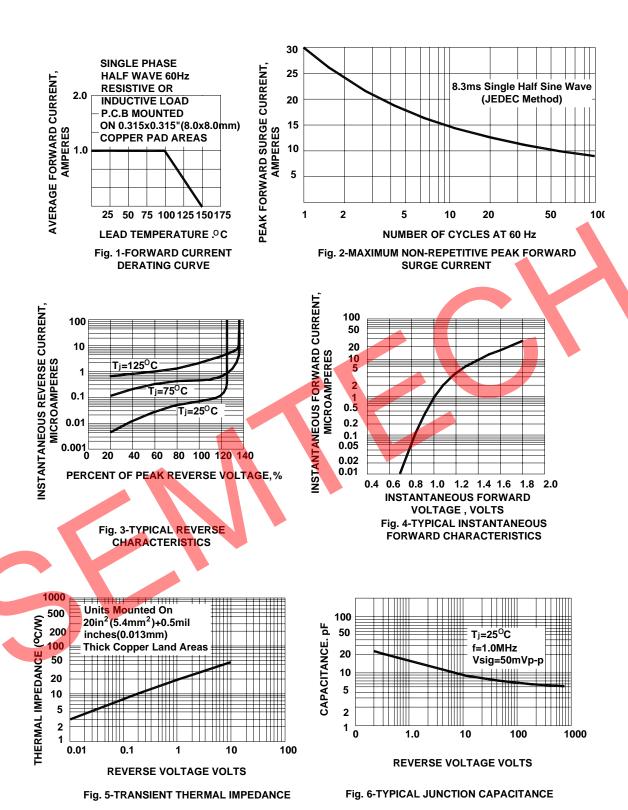
¹⁾ Measured at 1MHz and applied reverse voltage of 4 V





Dated: 14/04/2008

 $^{^{2)}}$ 8 mm 2 (0.013 mm thick) land areas







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