M1D THRU M7D

Surface Mount General Purpose Plastic Rectifier Reverse Voltage - 50 to 1000 V Forward Current - 1 A

Features

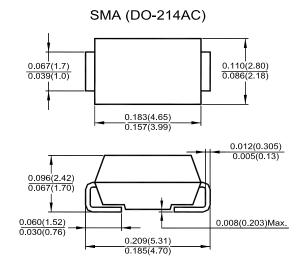
- · For surface mounted applications
- · Low profile package
- · Built-in strain relief
- · Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

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%.

Parameter	Symbols	M1D	M2D	M3D	M4D	M5D	M6D	M7D	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 _a = 50 °C	I _{F(AV)}	1							Α
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							А
Maximum Instantaneous Forward Voltage at 1 A	V _F	1							V
	I _R	5 50							μA
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	55							°C/W
Typical Thermal Resistance, Junction to Lead	R _{0JL}	25							°C/W
Junction and Storage Temperature Range	T _{J,} T _{Stg}	- 55 to + 150							°C











