S1AD THRU S1MD

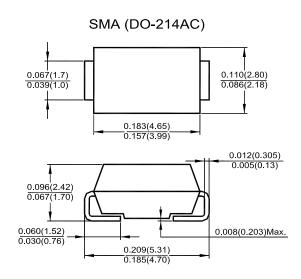
Surface Mount General Rectifier Reverse Voltage – 50 to 1000 V Forward Current – 1 A

Features

- The Plastic package carries Underwriters Laboratories Flammability Classification 94V-0
- For surface mounted applications
- · Low reverse leakage
- · Built-in strain relief, ideal for automated placement
- · High forward surge current capability

Mechanical Data

- · Case: JEDEC DO-214AC, molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denates cathode end
- Mounting Position: Any



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	Symbol	S1AD	S1BD	S1DD	S1GD	S1JD	S1KD	S1MD	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 = 110°C	I _{F(AV)}	1							А
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	1.1						V	
Maximum DC Reverse Current $T_a = 25^{\circ}C$ at Rated DC Blocking Voltage $T_a = 100^{\circ}C$	I _R	5 50							μA
Typical Junction Capacitance 1)	CJ	15						pF	
Typical Thermal Resistance ²⁾	$R_{ extsf{ heta}JA}$	75						°C/W	
Operating Junction and Storage Temperature Range	T _j , T _{stg}	- 55 to + 150							°C

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

 $^{2)}$ P.C.B. mounted with 0.2 X 0.2" (5.0 X 5.0 mm) copper pad areas.



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