

S1A THRU S1M

1.0 AMP. Surface Mount Rectifiers



Voltage Range 50 to 1000 Volts Current 1.0 Ampere

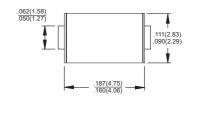
Features

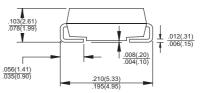
- ♦ For surface mounted application
- Glass passivated junction chip.
- ♦ Low forward voltage drop
- ♦ High current capability
- ♦ Easy pick and place
- High surge current capability
- Plastic material used carries Underwriters Laboratory Classification 94V-O
- High temperature soldering:
 260°C / 10 seconds at terminals

Mechanical Data

- ♦ Case: Molded plastic♦ Terminals: Solder plated
- ♦ Polarity: Indicated by cathode band
- ♦ Packaging: 12mm tape per EIA STD RS-481
- ♦ Weight: 0.064 gram

SMA/DO-214AC





Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating 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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Type Number	Symbol	S1A	S1B	S1D	S1G	S1J	S1K	S1M	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 @ T_L =110 $^{\circ}$ C	I _(AV)	1.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							A
Maximum Instantaneous Forward Voltage @ 1.0A	V_{F}	1.1							V
Maximum DC Reverse Current @ T _A =25°C	I_R	5							uA
at Rated DC Blocking Voltage @ T _A =125℃	-10	50							uA
Typical Thermal Resistance (Note 2)	$R\theta_{JL}$	27 30					°C/W		
	$R\theta_{JA}$			75			8	5	
Typical Junction Capacitance (Note 1)	Cj	12						pF	
Operating Temperature Range	TJ	-55 to +150							\mathbb{C}
Storage Temperature Range	T _{STG}	-55 to +150							င္

Notes: 1. Measured at 1 MHz and Applied V_R=4.0 Volts

2. Measured on P.C. Board with 0.2" x 0.2" (5.0mm x 5.0mm) Copper Pad Areas.



