

S2A THRU S2M

2.0 AMPS. Surface Mount Rectifiers



Voltage Range 50 to 1000 Volts Current 2.0 Amperes

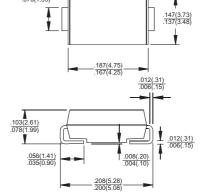
Features

- ♦ 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 plasticTerminals: Solder plated
- Polarity: Indicated by cathode band
- Packaging: 12mm tape per EIA STD RS-481
- Weight: 0.093 gram

SMB/DO-214AA



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	S2A	S2B	S2D	S2G	S2J	S2K	S2M	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 =100°C	I _(AV)	2.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							Α
Maximum Instantaneous Forward Voltage @ 2.0A	V _F	1.15							>
Maximum DC Reverse Current @ T _A =25°C	I_				5.0				uA
at Rated DC Blocking Voltage @ T _A =125℃	I _R				125				uA
Typical Thermal Resistance (Note 3)	$R\theta_{JL}$	16 53							℃ /W
	$R\theta_{JA}$								
Maximum Reverse Recovery Time (Note 1)	Trr	2.0							uS
Typical Junction Capacitance (Note 2)	Cj	30							pF
Operating Temperature Range	TJ	-55 to +150							C
Storage Temperature Range	Tstg	-55 to +150							J

- Notes: 1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
 - 2. Measured at 1 MHz and Applied V_R=4.0 Volts
 - 3. Measured on P.C. Board with 0.4 x 0.4" (10 x 10mm) Copper Pad Areas.



