

S1AB THRU **S1MB**

1.0 AMP. Surface Mount Rectifiers



Voltage Range 50 to 1000 Volts Current 1.0 Ampere

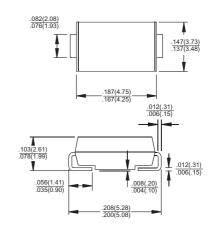
Features

- ♦ 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: 0.093 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	S1 AB	S1 BB	S1 DB	S1 GB	S1 JB	S1 KB	S1 MB	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°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						А	
Maximum Instantaneous Forward Voltage @ 1.0A	V_{F}	1.1						V	
Maximum DC Reverse Current @ T _A =25°C	I_	5							uA
at Rated DC Blocking Voltage @ T _A =125℃	I _R	50							uA
Typical Thermal Resistance (Note 2)	$R\theta_{JL}$	30						C/W	
Typical Junction Capacitance (Note 1)	Cj	12						pF	
Operating Temperature Range	TJ	-55 to +150							C
Storage Temperature Range	Tstg	-55 to +150						C	

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

2. Measured on P.C. Board with 0.27 x 0.27" (7.0 x 7.0mm) Copper Pad Areas.



