

S1AB - S1MB

1.0AMP Surface Mount Rectifiers

SMB/DO-214AA

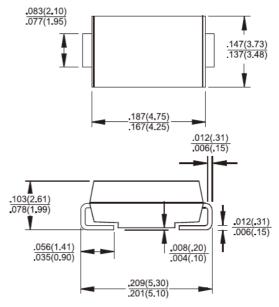






Features

- ♦ 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-0
- → High temperature soldering: 260°C/10 seconds at terminals
- ♦ Green compound with suffix "G" on packing code & prefix "G" on datecode



Dimensions in inches and (millimeters)

Marking Diagram S1XB = S

S1XB SGYM

S1XB = Specific Device Code G = Green Compound

Y = Year M = Work Month

Mechanical Data

♦ Case: Molded plastic

♦ Terminal: Pure tin plated, lead free

 \diamond Polarity: Indicated by cathode band

♦ Packing: 12mm tape per EIA STD RS-481

♦ Weight: 0.093 grams

Maximum Ratings and Electrical Characteristics

For capacitive load, derate current by 20%

Type Number	Symbol	S1 AB	S1 BB	S1 DB	S1 GB	S1 JB	S1 KB	S1 MB	Unit
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 @TL=110℃	I _{F(AV)}	1							Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							Α
Maximum Instantaneous Forward Voltage (Note 1) @ 1 A	V _F	1.1							٧
Maximum Reverse Current @ Rated VR T _A =25 ℃		5 50							uA
T _A =125 ℃	I _R								
Typical Junction Capacitance (Note 2)	Cj	12							pF
Typical Thermal Resistance	$R_{\theta jL}$	30							°C/W
Operating Temperature Range	TJ	- 55 to + 150							οС
Storage Temperature Range	T _{STG}	- 55 to + 150							οС

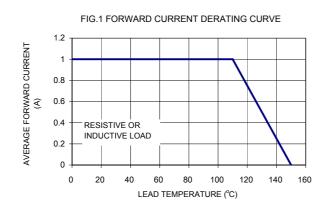
Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

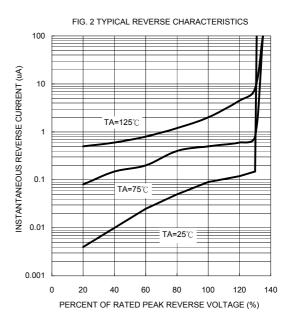
Note 2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

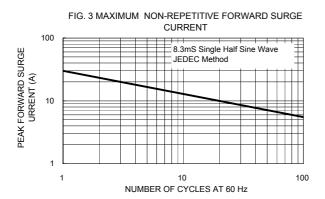
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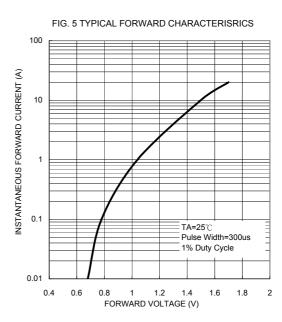


RATINGS AND CHARACTERISTIC CURVES (S1AB THRU S1MB)

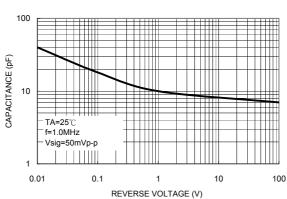












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