

1.0AMP Surface Mount Rectifiers **SMB/DO-214AA**

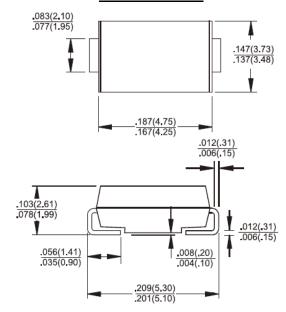






Features

- ♦ 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)

S1XB SGYM

Marking Diagram
S1XB = Specific Device Code

G = Green Compound

Y = Year M = Work Month

Mechanical Data

Case: Molded plastic
 Terminal: Pure tin plated, lead free

♦ 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 $^{\circ}$ C	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							V
Maximum Reverse Current @ Rated VR T _A =25 ℃	1	5 50							uA
T _A =125 °C	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.



RATINGS AND CHARACTERISTIC CURVES (S1AB THRU S1MB)

