







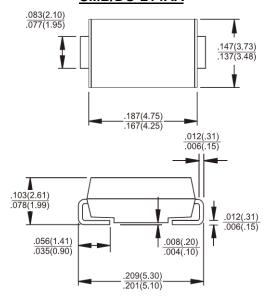
Features

- UL Recognized File # E-326243
- For surface mounted application
- Glass passivated chip junction
- 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

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

2.0 AMPS Surface Mount Rectifiers SMB/DO-214AA



Dimensions in inches and (millimeters)

Marking Diagram

= Specific Device Code G = Green Compound Υ = Year Μ = Work Month

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%

Type Number	Symbol	S2A	S2B	S2D	S2G	S2J	S2K	S2M	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 @T _L =100°C	I _{F(AV)}	2.0						Α	
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							Α
Maximum Instantaneous Forward Voltage (Note 1) @ 2A	V _F	1.15						V	
Maximum Reverse Current @ Rated VR T_A =25 $^{\circ}$ C T_A =125 $^{\circ}$ C	I _R	1 125							uA
Maximum Reverse Recovery Time (Note 2)	Trr	1.5							uS
Typical Junction Capacitance (Note 3)	Cj	30							pF
Typical Thermal Resistance (Note 4)	$R_{ heta j A} \ R_{ heta j L}$	53 16						°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

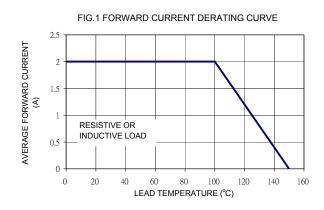
Note 2: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

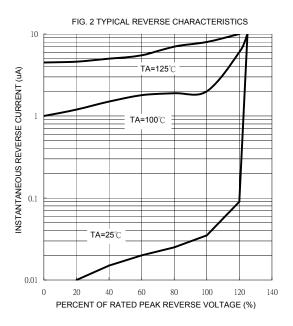
Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

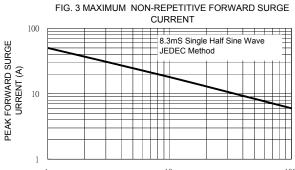
Note 4: PCB Mount on 10mm x 10mm Copper Pad Area

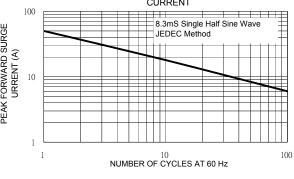


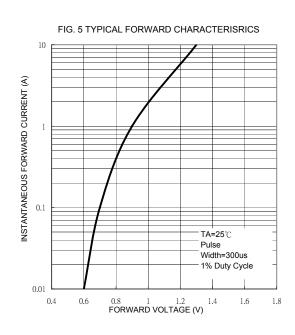
RATINGS AND CHARACTERISTIC CURVES (S2A THRU S2M)

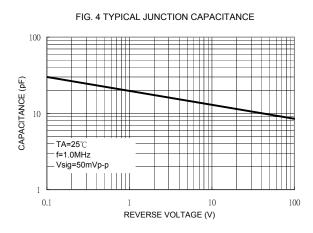




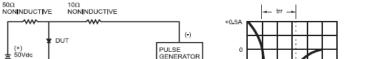








(approx)



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FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



₹INDUCTIVE