S2A - S2M

2.0 AMPS. Surface Mount Rectifiers



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

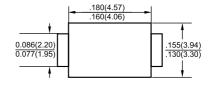
Mechanical Data

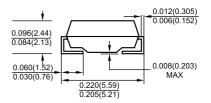
♦ Case: Molded plastic

Terminals: Pure tin plated, lead free.
 Polarity: Indicated by cathode band

Packaging: 12mm tapeWeight: 0.093 gram

SMB/DO-214AA





Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}\text{C}$ 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	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_ =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							А
Maximum Instantaneous Forward Voltage @ 2.0A	V _F	1.15							V
Maximum DC Reverse Current @ T _A =25 °C at Rated DC Blocking Voltage @ T _A =125 °C	I _R	5.0 125							uA uA
Typical Reverse Recovery Time (Note 1)	Trr	1.5							uS
Typical Junction Capacitance (Note 2)	Cj	30							pF
Typical Thermal resistance (Note 3)	R _{0JL} R _{0JA}	16 53							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	Тѕтс	-55 to +150							°C

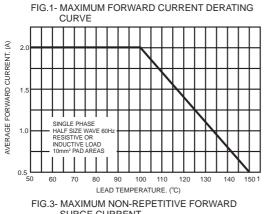
Notes:

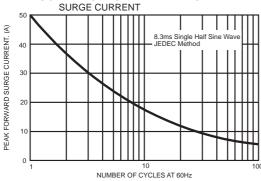
- 1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
- 2. Measured at 1 MHz and Applied V_R=4.0 Volts
- 3. Measured on P.C. Board with 0.4" x 0.4" (10mm x 10mm) Copper Pad Areas.

S2A - S2M

2.0 AMPS. Surface Mount Rectifiers

RATINGS AND CHARACTERISTIC CURVES (S2A THRU S2M)





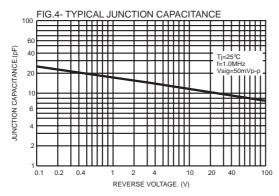


FIG.2- TYPICAL REVERSE CHARACTERISTICS

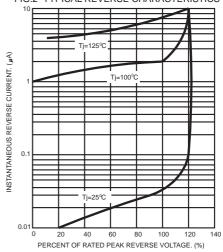


FIG.5- TYPICAL FORWARD CHARACTERISTICS

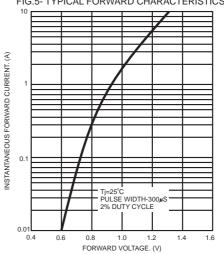
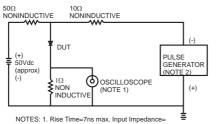
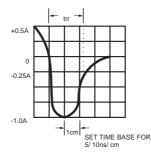


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



1 megohm 22pf
2. Rise Time=10ns max. Sourse Impedance=

50 ohms



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