





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 tape per EIA STD RS-481
- ♦ Weight: 0.064 gram

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	S2AA	S2BA	S2DA	S2GA	S2JA	S2KA	S2MA	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 $@T_L = 100^{\circ}C$	I _(AV)	1.5							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							A
Maximum Instantaneous Forward Voltage @ 1.5A	V _F	1.1							V
Maximum DC Reverse Current @ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A = 125^{\circ}C$	I _R	5.0 125							uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	2.0							uS
Typical Junction Capacitance (Note 2)	Cj	30							рF
Typical Thermal resistance (Note 3)	R _{θJL} R _{θJA}	16 53							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

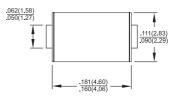
Notes: 1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

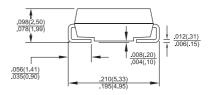
2. Measured at 1 MHz and Applied V_R =4.0 Volts

3. Measured on P.C. Board with 0.2" x 0.2" (5.0 mm x 5.0mm) Copper Pad Areas.

S2AA - S2MA 1.5 AMPS. Surface Mount Rectifiers

SMA/DO-214AC

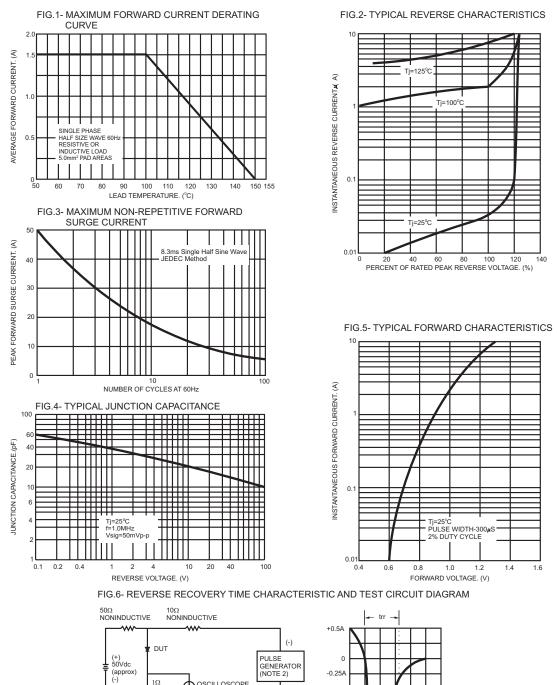




Dimensions in inches and (millimeters)



RATINGS AND CHARACTERISTIC CURVES (S2AA THRU S2MA)



(·) IΩ NOTES: 1. Rise Time=7ns max. Input Impedance= 1 megohm 22pf 2. Rise Time=10ns max. Sourse Impedance= 50 ohms

Version: B07