

S2AA THRU S2MA

1.5 AMPS. Surface Mount Rectifiers



Voltage Range 50 to 1000 Volts Current 1.5 Amperes

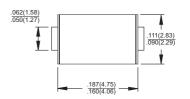
Features

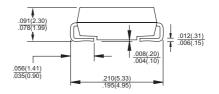
- ♦ For surface mounted application
- Glass passivated junction chip.
- ♦ Low forward voltage drop
- High current capability
- ♦ Easy pick and place
- High surge current capability
- Plastic material used carries Underwriters Laboratory Classification 94V-O
- High temperature soldering:
 260°C / 10 seconds at terminals

Mechanical Data

- Case: Molded plastic
- ♦ Terminals: Solder plated
- Polarity: Indicated by cathode band
- Packaging: 12mm tape per EIA STD RS-481
- ♦ Weight: 0.064 gram

SMA/DO-214AC





Dimensions in inches and (millimeters)

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°C	I _(AV)	1.5							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							Α
Maximum Instantaneous Forward Voltage @ 1.5A	V _F	1.1							٧
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 Thermal Resistance (Note 3)	$R heta_{JL} \ R heta_{JA}$	16 53							°C/W
Maximum Reverse Recovery Time (Note 1)	Trr	2.0						uS	
Typical Junction Capacitance (Note 2)	Cj	30							pF
Operating Temperature Range	T_J	-55 to +150							ဝင
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 x 5.0mm) Copper Pad Areas.



