



S2AA THRU S2MA

RoHS

Surface Mount Plastic Silicon Rectifiers

Reverse Voltage - 50 to 1000Volts Forward Current - 2.0 Amperes

Features

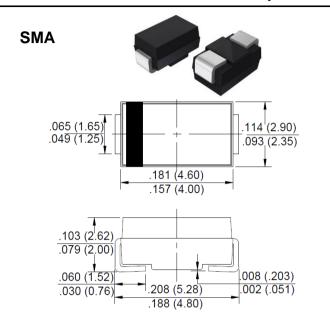
- For surface mounted applications
- Low reverse leakage current
- Low forward voltage drop
- High surge capacity
- Meet UL flammability classification 94V-0
- AEC-Q101 qualified

Mechanical Data

- Case: JEDEC SMA molded plastic
- Polarity: Color band denotes cathode
- Mounting position: Any

Applications

• For use in low voltage, high frequency inverters, polarity protection applications



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	S2AA	S2BA	S2DA	S2GA	S2JA	S2KA	S2MA	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TL=100 $^{\circ}\mathrm{C}$	I(AV)	2.0							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	60							А
Superimposed on Rated Load (JEDEC Method)	IFOW UU								
I ² t Rating for Fusing (t<8.3mS)	l ² t	14.9						A ² s	
Peak Forward Voltage at 2.0A DC (Note1)	VF	1.1							V
Maximum DC Reverse Current @TJ=25℃	5.0								uA
at Rated DC Bolcking Voltage @TJ=125℃	IK	125							
Typical Junction Capacitance (Note 2)	Cl	20							pF
Typical Thermal Resistance Junction to Lead	Rejl	20							°C/W
Operating Junction Temperature Range	TJ	-55 to+150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to+150							$^{\circ}$

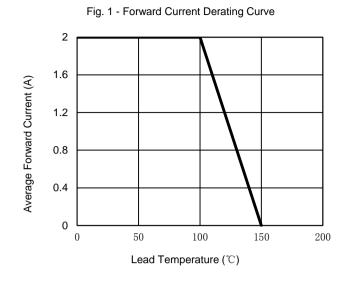
Notes: 1. 300uS pulse width, 2%duty cycle.

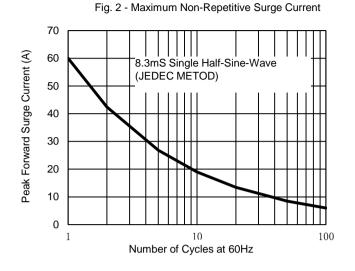
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. The typical data above is for reference only.

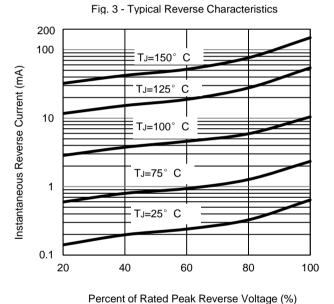
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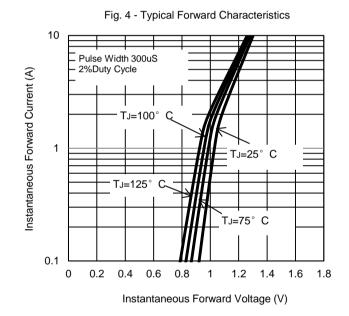
Rev. 10, 1-Nov-2019











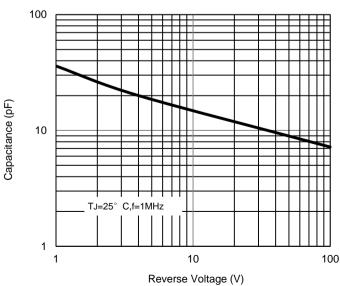


Fig. 5 - Typical Junction Capacitance

The curve above is for reference only.

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