

Surface Mount Schottky Barrier Recitifiers

Reverse Voltage - 45Volts Forward Current - 3.0 Amperes

Features

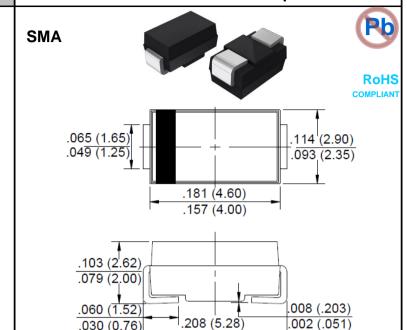
- Low power loss, high efficiency
- For surface mounted applications
- Low forward voltage drop
- High surge capacity
- Meet UL flammability classification 94V-0
- AEC-Q101 qualified

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)

.188 (4.80)

.030 (0.76)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

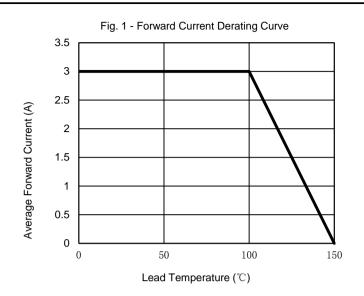
For capacitive load, derate current by 20%

Characteristics	Symbol	SS345A	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	45	V
Maximum RMS Voltage	VRMS	31.5	V
Maximum DC Blocking Voltage	VDC	45	V
Maximum Average Forward Rectified Current @TL=100 $^{\circ}\mathrm{C}$	I(AV)	3.0	А
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	IFSM	80	А
I ² t Rating for Fusing (t<8.3mS)	l ² t	26.7	A ² s
Peak Forward Voltage at 3.0A DC (Note1)	VF	0.55	V
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=100°C	lr	1.0 20	mA
Typical Junction Capacitance (Note 2)	CJ	250	pF
Typical Thermal Resistance Junction to Lead	Røjl	10	°C/W
Typical Thermal Resistance Junction to Ambient	RθJA	50	°C/W
Junction Temperature Range	TJ	-55 to+150	$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to+150	${\mathbb C}$

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 .





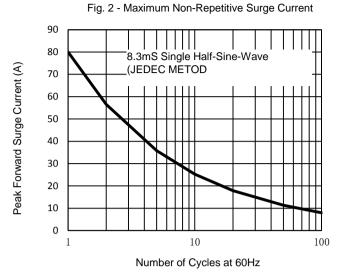
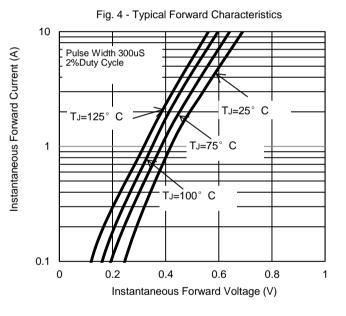


Fig. 3 - Typical Reverse Characteristics 100 T_J=125° C Instantaneous Reverse Current (mA) 10 T_J=100° C 1 T_J=75° C 0.1 T_J=25° C 0.01 0.001 20 40 60 80 100

Percent of Rated Peak Reverse Voltage (%)





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