



# SS315A THRU SS320A

## SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 150 to 200 Volts    Forward Current - 3.0 Ampere

### FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed:  
250°C/10 seconds at terminals

### MECHANICAL DATA

**Case:** JEDEC DO-214AC molded plastic body

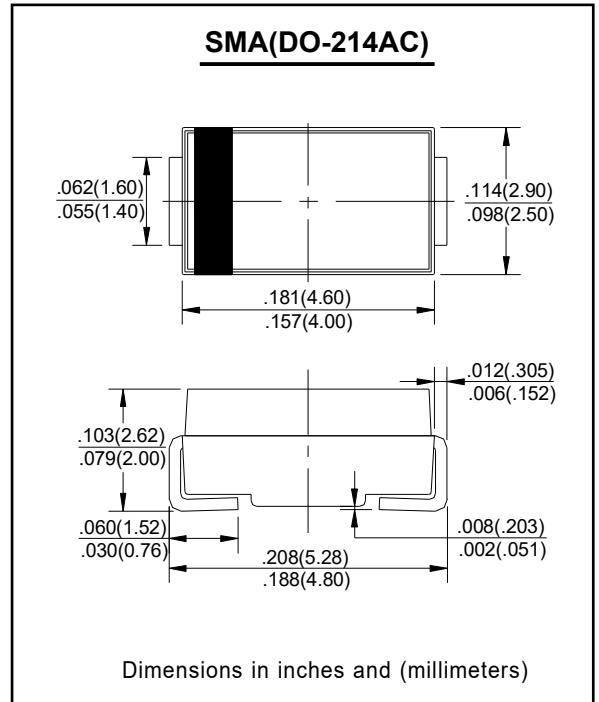
**Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026

**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

**Weight:** 0.003 ounce, 0.093 grams

0.004 ounce, 0.111 grams SMA



### Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

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

For capacitive load, derate current by 20%.

Characteristic	Symbol	SS315A	SS320A	Unit
Peak Repetitive Reverse Voltage	VRRM	150	200	V
Working Peak Reverse Voltage	VRWM			
DC Blocking Voltage	VR			
RMS Reverse Voltage	VR(RMS)	105	140	V
Average Rectified Output Current (Note1)	Io	3.0		A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	80		A
Forward Voltage @ $I_F = 3.0\text{A}$	VFM	0.95		V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	IRM	1.0 20.0		mA
Typical Junction Capacitance (Note 1)	Cj	250		pF
Operating and Storage Temperature Range	Tj, TSTG	-55 to +150		°C

Note: 1. Mounted on FR-4 PCB with 5.0 x 5.0mm copper pads.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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## RATINGS AND CHARACTERISTIC CURVES

Fig. 1 - Forward Current Derating Curve

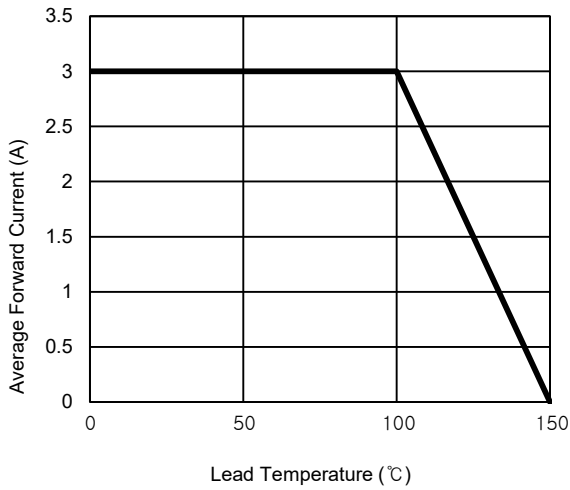


Fig. 2 - Maximum Non-Repetitive Surge Current

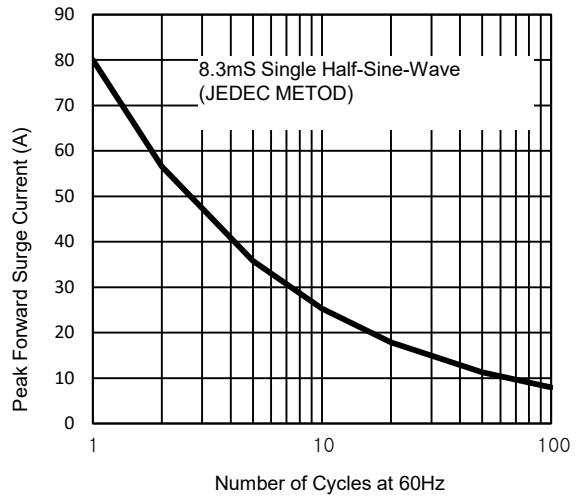


Fig. 3 - Typical Reverse Characteristics

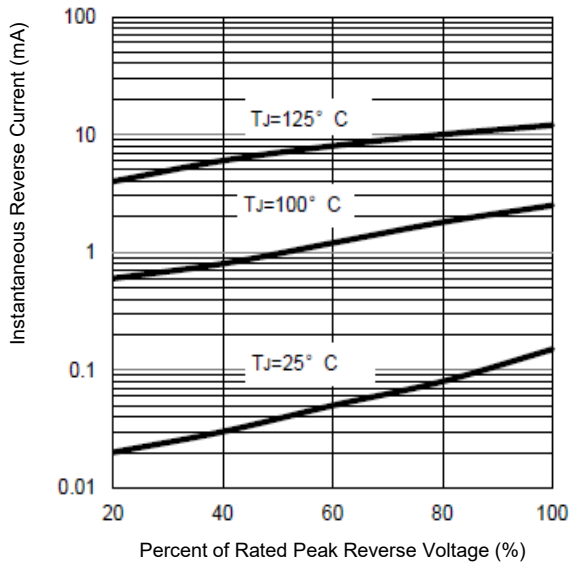


Fig. 4 - Typical Forward Characteristics

