

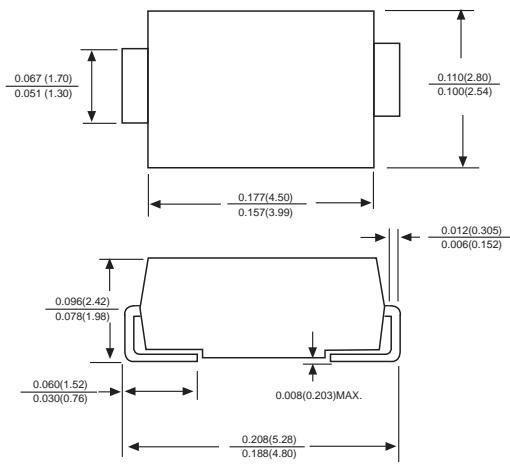


# SS3150 THRU SS3200

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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

### DO-214AC/SMA



Dimensions in inches and (millimeters)

### FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

### 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:** 0.002 ounce, 0.07 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

MDD Catalog Number	SYMBOLS	SS3150	SS3200	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	150	200	VOLTS
Maximum RMS voltage	V <sub>RMS</sub>	105	140	VOLTS
Maximum DC blocking voltage	V <sub>DC</sub>	150	200	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length(see fig.1)	I <sub>(AV)</sub>	3.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	80.0		Amps
Maximum instantaneous forward voltage at 3.0A	V <sub>F</sub>	0.85	0.95	Volts
Maximum DC reverse current      TA=25°C at rated DC blocking voltage      TA=100°C	I <sub>R</sub>	0.2	2.0	mA
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	200		pF
Typical thermal resistance (NOTE 2)	R <sub>θJA</sub>	88.0		°C/W
Operating junction temperature range	T <sub>J</sub>	-65 to +150		°C
Storage temperature range	T <sub>STG</sub>	-65 to +150		°C

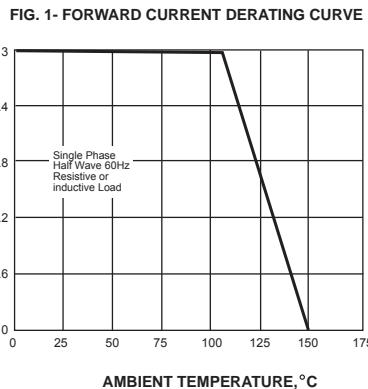
**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

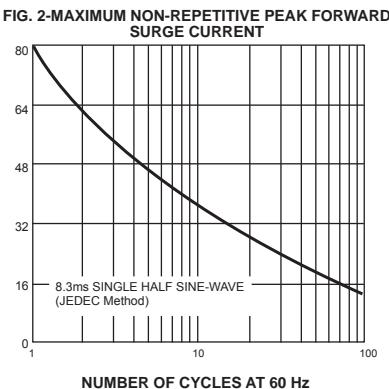
**MDD ELECTRONIC**

# RATINGS AND CHARACTERISTIC CURVES SS3150 THRU SS3200

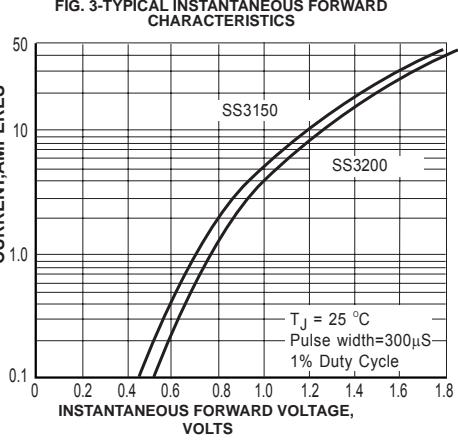
AVERAGE FORWARD RECTIFIED CURRENT,  
AMPERES



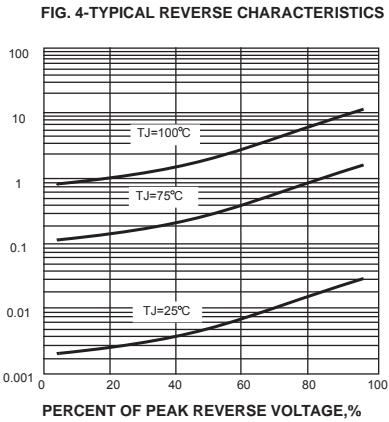
PEAK FORWARD SURGE CURRENT,  
AMPERES



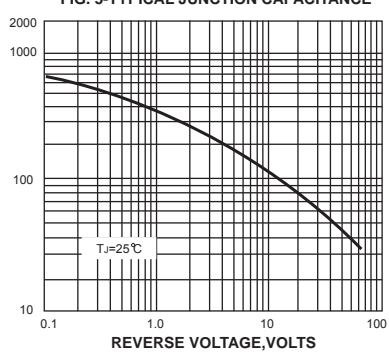
INSTANTANEOUS FORWARD  
CURRENT, AMPS



INSTANTANEOUS REVERSE CURRENT,  
MICROAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,  
°C/W

