



# SS315- SS320

Surface Mount Schottky Barrier Rectifier



Reverse Voltage - 200 Volts  
Forward Current - 3.0 Amperes



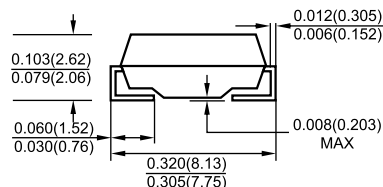
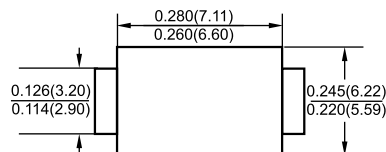
## Features

- ◇ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◇ For surface mounted applications
- ◇ Metal silicon junction, majority carrier conduction Low power loss, high efficiency
- ◇ 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-214AB molded plastic body
- ◇ Terminals: leads solderable per MIL-STD-750, Method 2026
- ◇ Polarity: Color band denotes cathode end
- ◇ Mounting Position: Any

## SMC/DO-214AB



Dimensions in inches and (millimeters)

## 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%.

	SYMBOLS	SS315	SS320	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	150	200	VOLTS
Maximum RMS voltage	$V_{RMS}$	105	140	VOLTS
Maximum DC blocking voltage	$V_{DC}$	150	200	VOLTS
Maximum average forward rectified current at $T_L$ (see fig. 1)	$I_{(AV)}$	3.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	100.0		Amps
Maximum instantaneous forward voltage at 3.0A	$V_F$	0.84		Volts
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ C$ $T_A=100^\circ C$	$I_R$	1.0 10		mA
Typical junction capacitance (NOTE 1)	$C_J$	300		pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	62.0		$^\circ C/W$
Operating junction temperature range	$T_J$	-65 to +150		$^\circ C$
Storage temperature range	$T_{STG}$	-65 to +150		$^\circ C$

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

2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

## RATINGS AND CHARACTERISTIC CURVES SS320

