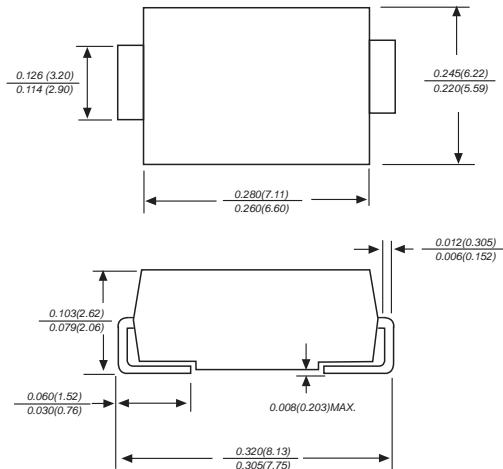


# SK315C THRU SK320C

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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

### DO-214AB



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:  
260°C/10 seconds, 0.375" (9.5mm) lead length,  
5 lbs. (2.3kg) tension

### MECHANICAL DATA

- Case:** JEDEC DO-214AB molded plastic body  
**Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026  
**Polarity:** Color band denotes cathode end  
**Mounting Position:** Any  
**Weight:** 0.007 ounce, 0.25 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 derate by 20%.

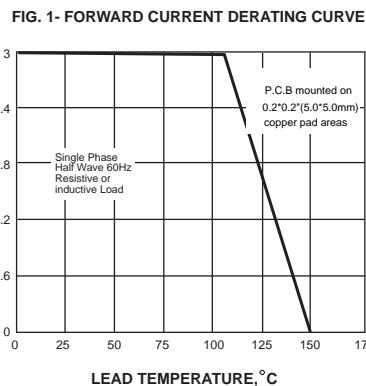
	SYMBOLS	SK315C	SK320C	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	150	200	V
Maximum RMS voltage	V <sub>RMS</sub>	105	140	V
Maximum DC blocking voltage	V <sub>DC</sub>	150	200	V
Maximum average forward rectified current at T <sub>L</sub> (see fig.1)	I <sub>(AV)</sub>	3.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	100.0		A
Maximum instantaneous forward voltage at 3.0A	V <sub>F</sub>	0.85	0.95	V
Maximum DC reverse current    TA=25°C at rated DC blocking voltage    TA=100°C	I <sub>R</sub>	0.1		mA
		2.0		
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	200		pF
Typical thermal resistance (NOTE 2)	R <sub>θJA</sub>	55.0		°C/W
Operating junction temperature range	T <sub>J</sub>	-55 to +150		°C
Storage temperature range	T <sub>STG</sub>	-55 to +150		°C

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

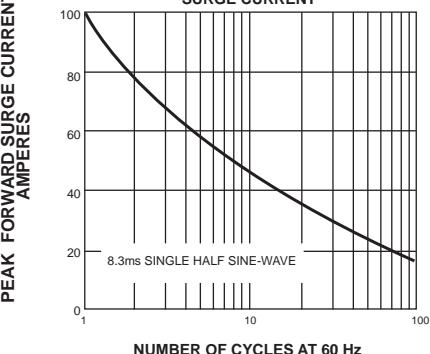
2. Thermal resistance from junction to ambient.

# RATINGS AND CHARACTERISTIC CURVES SK315C THRU SK320C

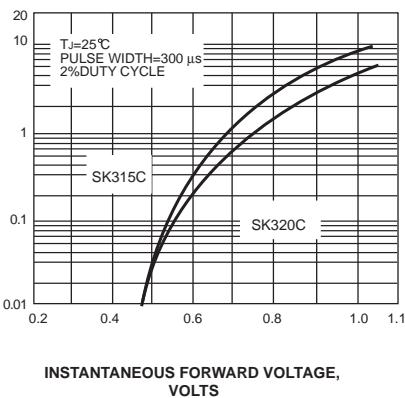
AVERAGE FORWARD RECTIFIED CURRENT,  
AMPERES



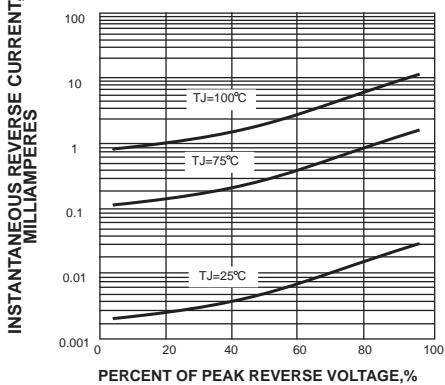
**FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



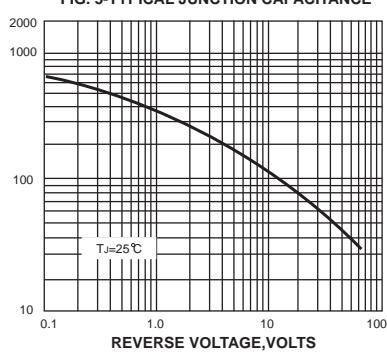
INSTANTANEOUS FORWARD  
CURRENT, AMPERES



**FIG. 4-TYPICAL REVERSE CHARACTERISTICS**



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,  
°C/W

