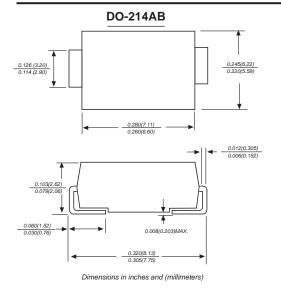
# SK515C THRU SK520C

### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 150 to 200 Volts Forward Current - 5.0 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: 260°C/10 seconds at terminals

#### **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 current derate by 20%.

	SYMBOLS	SK515C	SK520C	UNITS
Maximum repetitive peak reverse voltage	Vrrm	150	200	V
Maximum RMS voltage	VRMS	105	140	V
Maximum DC blocking voltage	VDC	150	200	V
Maximum average forward rectified current 0.375" (9.5mm) lead length(see fig.1)	l(AV)	5.0		А
Peak forward surge current				
8.3ms single half sine-wave superimposed on	Ігѕм	120.0		А
rated load				
Maximum instantaneous forward voltage at 5.0A	VF	0.95		V
Maximum DC reverse current Ta=25℃		C	0.1	
at rated DC blocking voltage Ta=100℃	IR -	2.0		— mA
Typical junction capacitance (NOTE 1)	Cı	200		pF
Typical thermal resistance (NOTE 2)	RθJA	55.0		°C/W
Operating junction temperature range	TJ	-55 to +150		°C
Storage temperature range	Тѕтс	-55 to +150		°C

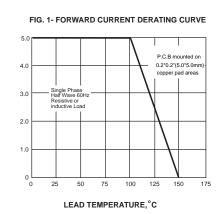
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

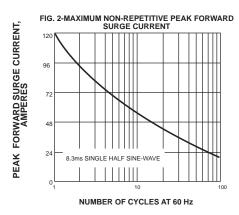
2. Thermal resistance from junction to ambient.



## **RATINGS AND CHARACTERISTIC CURVES SK515C THRU SK520C**







INSTANTANEOUS FORWARD CURRENT, AMPERES

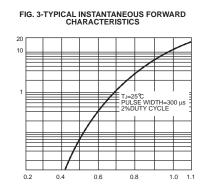
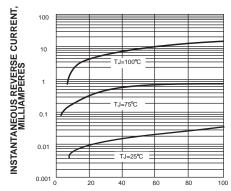
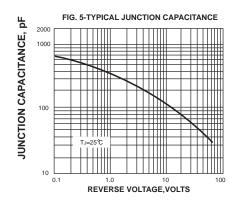


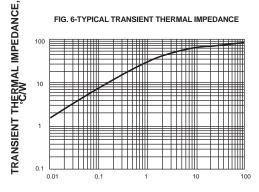
FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS



PERCENT OF PEAK REVERSE VOLTAGE,%



t,PULSE DURATION,sec.