

# SK22 THRU S210

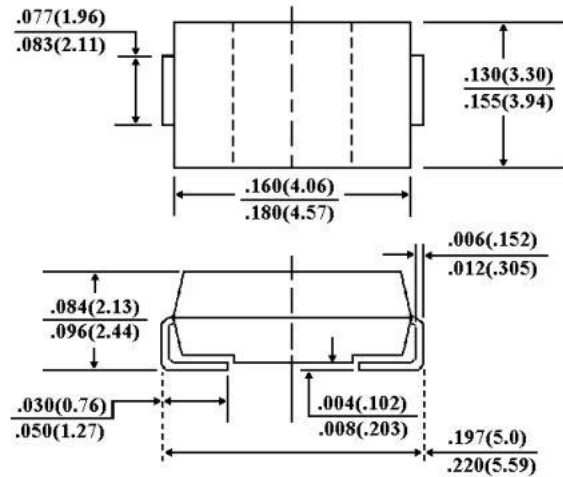
## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

### VOLTAGE - 20 to 100 Volts CURRENT - 2.0 Amperes

#### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier majority carrier conduction
- Low power loss, High efficiency
- High current capability, low  $V_F$
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 260  $\phi$ J/10 seconds at terminals

#### SMB/DO-214AA



Dimensions in inches and (millimeters)

#### MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic  
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026  
 Polarity: Color band denotes cathode  
 Standard packaging: 12mm tape (EIA-481)  
 Weight: 0.003 ounce, 0.093 gram

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $\phi$ J ambient temperature unless otherwise specified.

Resistive or inductive load.

	SYMBOLS	SK22	SK23	SK24	SK25	SK26	SK28	SK29	S210	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	64	71	Volts
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Current at $T_L$ (See Figure 1)	$I_{(AV)}$	2.0								Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	$I_{FSM}$	50.0								Amps
Maximum Instantaneous Forward Voltage at 2.0A (Note 1)	$V_F$	0.50		0.70		0.85			Volts	
Maximum DC Reverse Current $T_A=25 \phi$ J(Note 1) At Rated DC Blocking Voltage $T_A=100 \phi$ J	$I_R$					0.5		20.0		mA
Maximum Thermal Resistance (Note 2)	$R_{\text{£KJL}}$ $R_{\text{£KJA}}$					17		75		$\phi$ J/W
Operating Junction Temperature Range	$T_J$					-50 to +125				$\phi$ J
Storage Temperature Range	$T_{STG}$					-50 to +150				$\phi$ J

#### NOTES:

1. Pulse Test with PW=300  $\mu$ g sec, 2% Duty Cycle.
2. Mounted on P.C.Board with 8.0mm<sup>2</sup> (.013mm thick) copper pad areas.

<http://www.ndone.cn>

**RATING AND CHARACTERISTIC CURVES**  
**SK22 THRU S210**

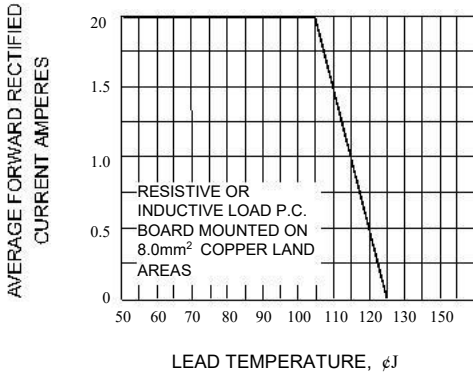


Fig. 1-FORWARD CURRENT DERATING CURVE

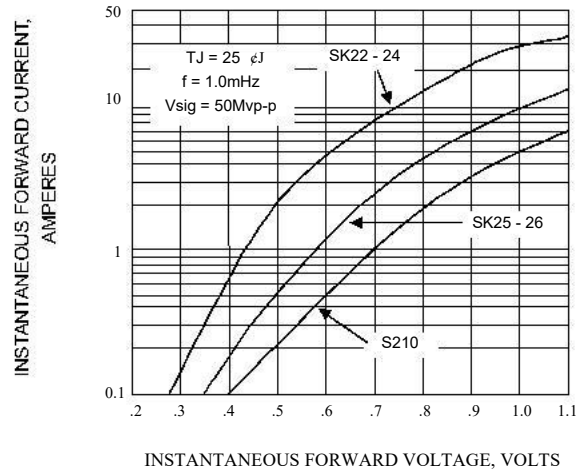


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

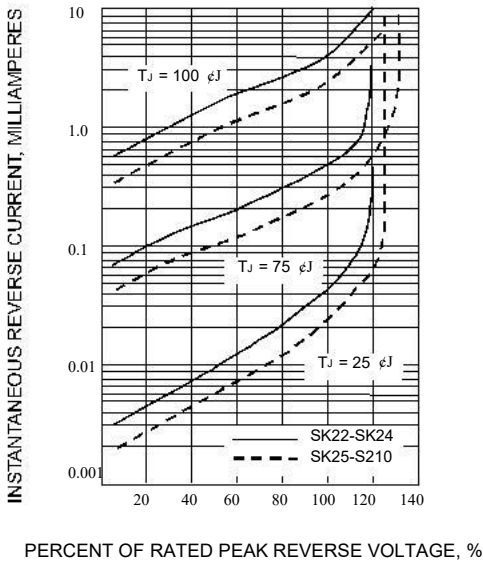


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

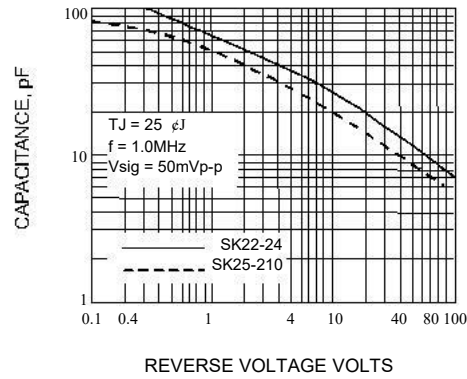


Fig. 4-TYPICAL JUNCTION CAPACITANCE

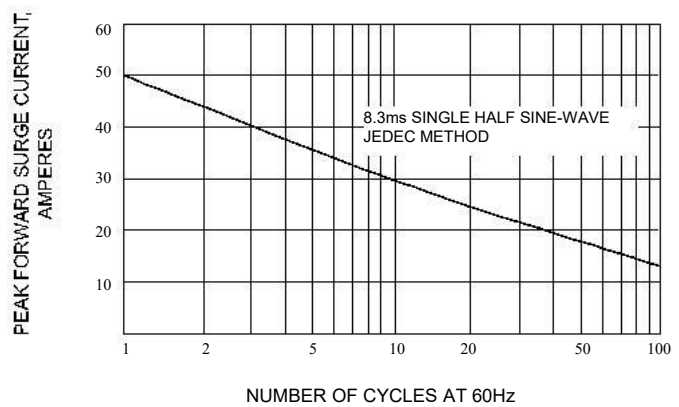


Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

单击下面可查看定价，库存，交付和生命周期等信息

[>>COMON\(阔迈\)](#)