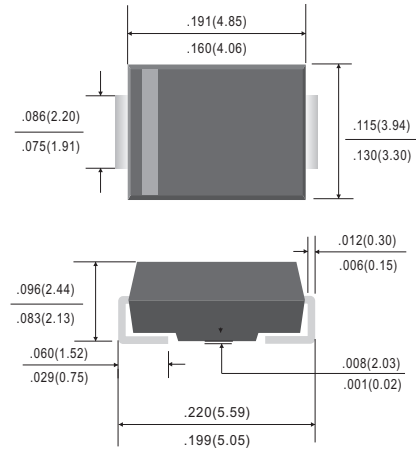


## 2.0A SCHOTTKY BARRIER RECTIFIERS -20V- 200V

### SMB PACKAGE

### FEATURES

- \* Ideal for surface mounted applications
- \* Low switching noise
- \* Low forward voltage drop
- \* High current capability
- \* High switching capability
- \* High reliability
- \* High surge capability
- \* RoHS product for packing code suffix "G",  
Halogen free product for packing code suffix "H".



Dimensions in inches and (millimeters)

### MECHANICAL DATA

Case: Molded plastic, DO-214AA(SMB)

Epoxy: UL 94V-O rate flame retardant

Lead:MIL-STD-202E method 208C guaranteed

Mounting position: Any

Weight: Approximated 0.104 gram

### 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 current by 20%

RATINGS	SYMBOL	SK22B	SK23B	SK24B	SK25B	SK26B	SK28B	SK210B	SK215B	SK220B	UNIT	
Marking Code		SK22B	SK23B	SK24B	SK25B	SK26B	SK28B	SK210B	SK215B	SK220B		
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	Volts	
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	Volts	
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	Volts	
Maximum Average Forward Rectified Current	I <sub>O</sub>	2.0									Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	50.0									Amps	
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub> /R <sub>θJC</sub>	90/50									°C/W	
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	150			120			100			pF	
Operating Temperature Range	T <sub>J</sub>	-55 to +125					-55 to +150					°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150									°C	

CHARACTERISTICS	SYMBOL	SK22B	SK23B	SK24B	SK25B	SK26B	SK28B	SK210B	SK215B	SK220B	UNIT	
Maximum Forward Voltage at 2.0A DC	V <sub>F</sub>	0.50			0.75		0.85		0.87		0.90	Volts
Maximum Average Reverse Current at	I <sub>R</sub>	0.5									mAmps	
Rated DC Blocking Voltage		20										

#### NOTES:

1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance From Junction to Ambient/CASE.

## RATING AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

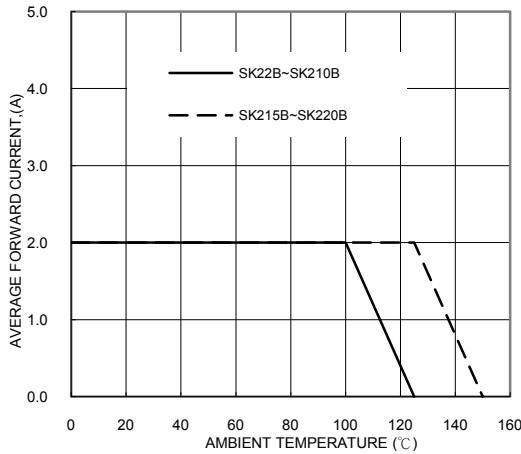


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

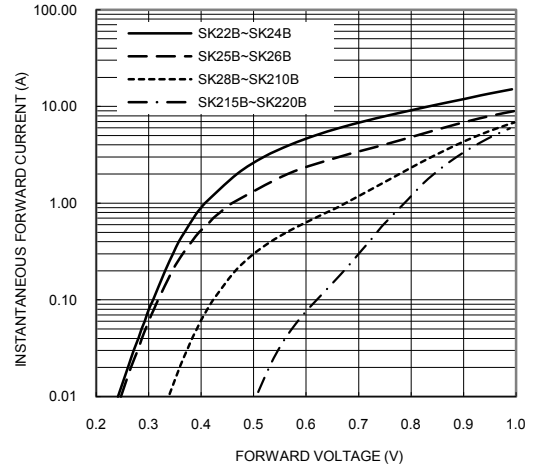


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

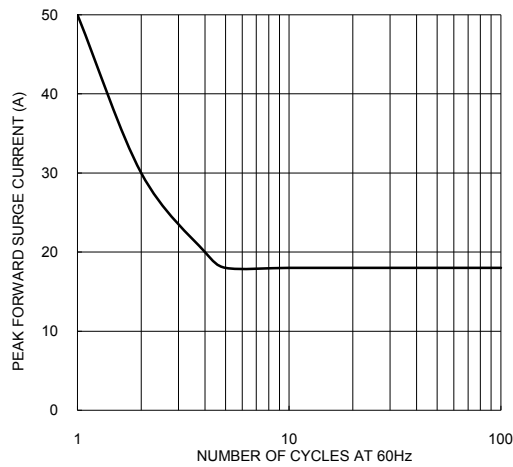


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

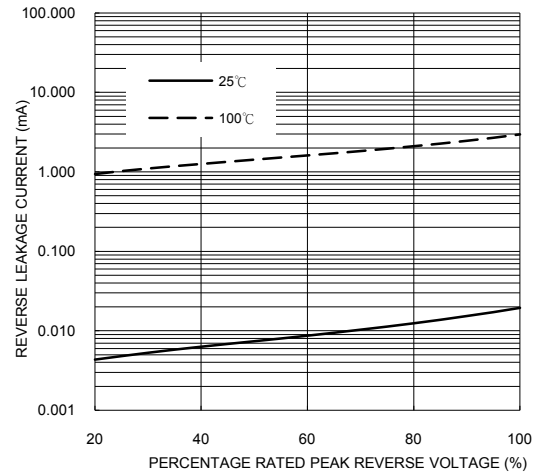


FIG. 5-TYPICAL JUNCTION CAPACITANCE

