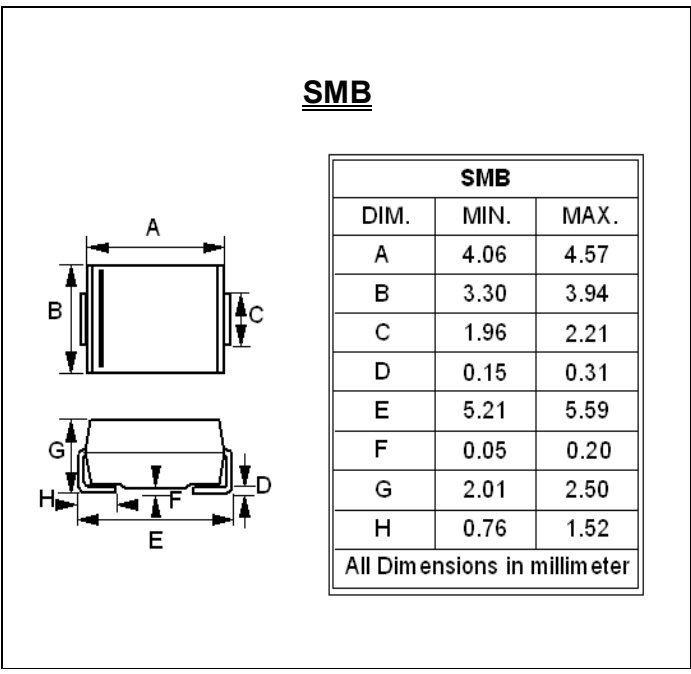


**SURFACE MOUNT  
SCHOTTKY BARRIER RECTIFIERS**

**REVERSE VOLTAGE – 50 to 60 Volts**  
**FORWARD CURRENT – 2.0 Amperes**

- FEATURES**
- For surface mounted application
  - Metal-Semiconductor junction with guard ring
  - Epitaxial construction
  - Very Low forward voltage drop
  - High current capability
  - For use in low voltage, high frequency inverters, free wheeling, and polarity protection application
- MECHANICAL DATA**
- Case: Molded plastic
  - Case Material: Molding compound, UL Flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
  - Polarity: Color band denotes cathode
  - Weight: 0.003 ounces, 0.093 grams



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**  
 Ratings at 25°C ambient temperature unless otherwise specified.

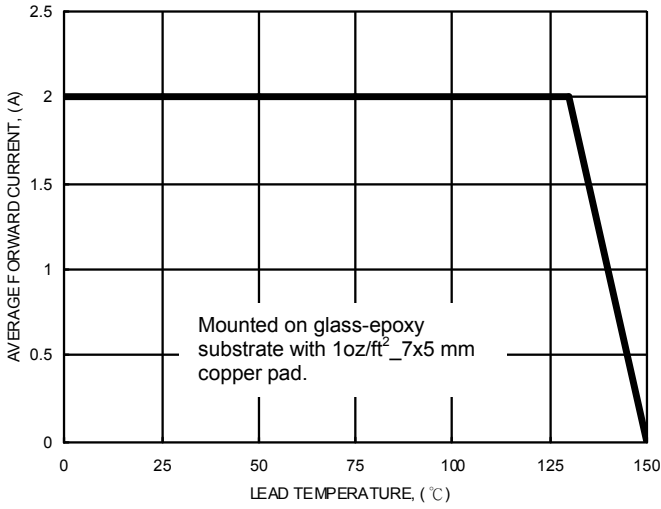
CHARACTERISTICS	SYMBOL	B250	B260	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	42	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	60	V
Maximum Average Forward Rectified Current @TL=130°C	I <sub>AV</sub>	2.0		A
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	50		A
Maximum Forward Voltage at 2.0A DC	V <sub>F</sub>	0.7		V
Maximum DC Reverse Current at Rated DC Blocking Voltage @Tj=25°C @Tj=100°C	I <sub>R</sub>	0.05 15		mA
Typical Junction Capacitance (Note 1)	C <sub>j</sub>	100		pF
Typical Thermal Resistance (Note 2)	R <sub>θJL</sub>	15		°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 1.0MHz and applied reverse voltage of 4.0V DC...  
 (2) Thermal Resistance Junction to Lead

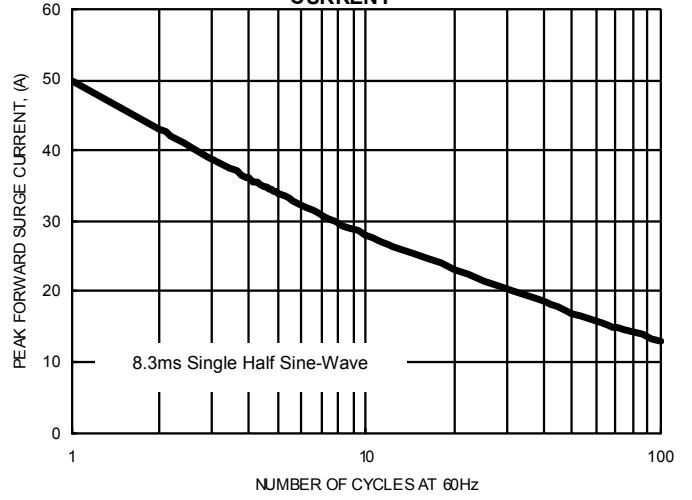
**RATING AND CHARACTERISTIC CURVES  
B250 thru B260**



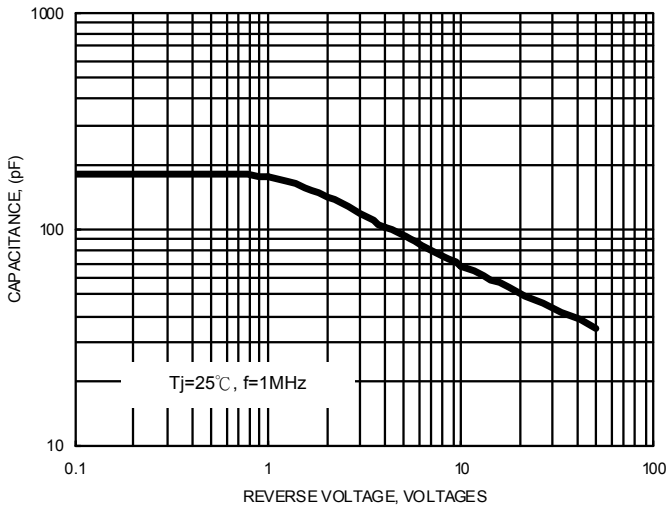
**FIG. 1- FORWARD CURRENT DERATING CURVE**



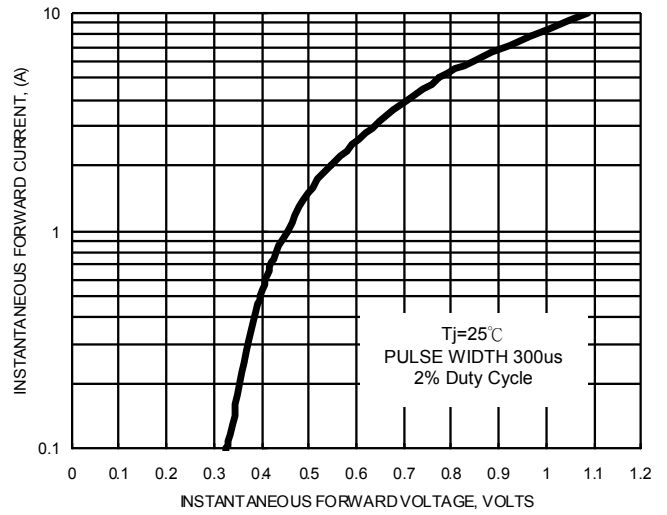
**FIG. 2- MAXIMUM NON-REPETITIVE SURGE CURRENT**



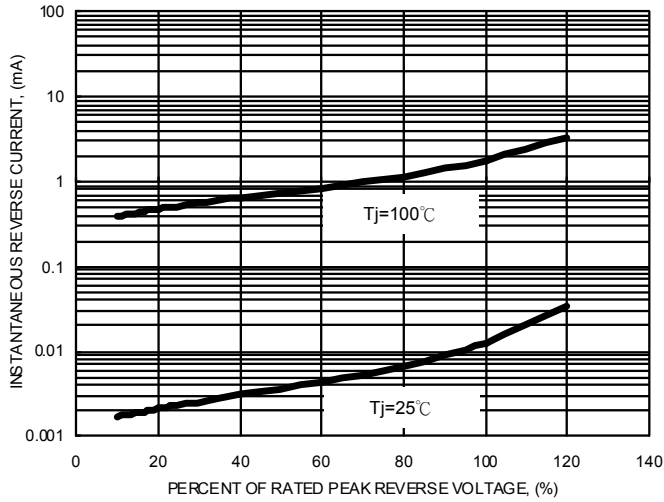
**FIG. 3- TYPICAL JUNCTION CAPACITANCE**



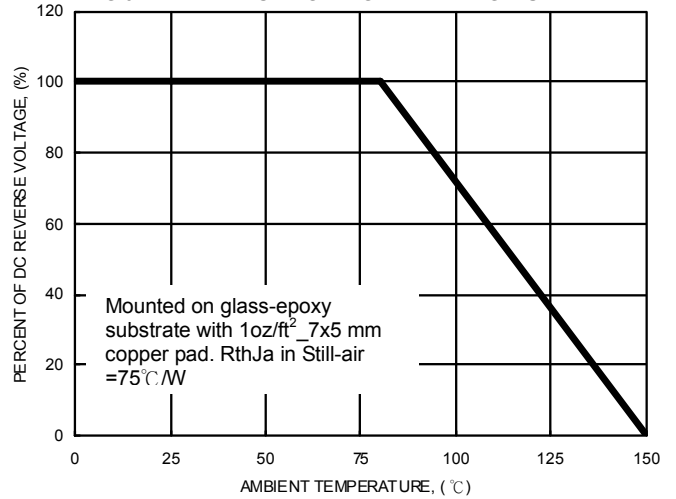
**FIG. 3- TYPICAL FORWARD CHARACTERISTICS**



**FIG. 5- TYPICAL REVERSE CHARACTERISTICS**



**FIG. 6- DC REVERSE VOLTAGE DERATING CURVE**



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