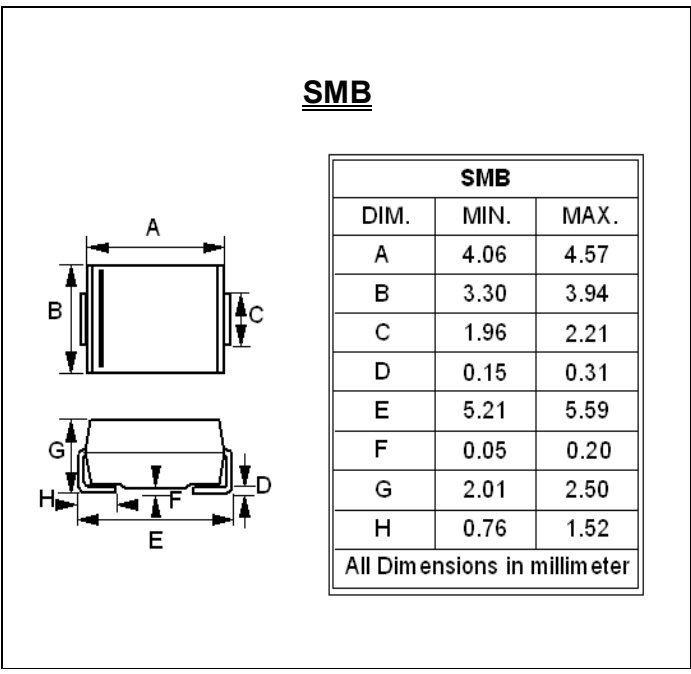


**SURFACE MOUNT
SCHOTTKY BARRIER RECTIFIERS**

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 _{RRM}	50	60	V
Maximum RMS Voltage	V _{RMS}	35	42	V
Maximum DC Blocking Voltage	V _{DC}	50	60	V
Maximum Average Forward Rectified Current @TL=130°C	I _{AV}	2.0		A
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50		A
Maximum Forward Voltage at 2.0A DC	V _F	0.7		V
Maximum DC Reverse Current at Rated DC Blocking Voltage @Tj=25°C @Tj=100°C	I _R	0.05 15		mA
Typical Junction Capacitance (Note 1)	C _j	100		pF
Typical Thermal Resistance (Note 2)	R _{θJL}	15		°C/W
Operating Junction Temperature Range	T _j	-55 to +150		°C
Storage Temperature Range	T _{STG}	-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

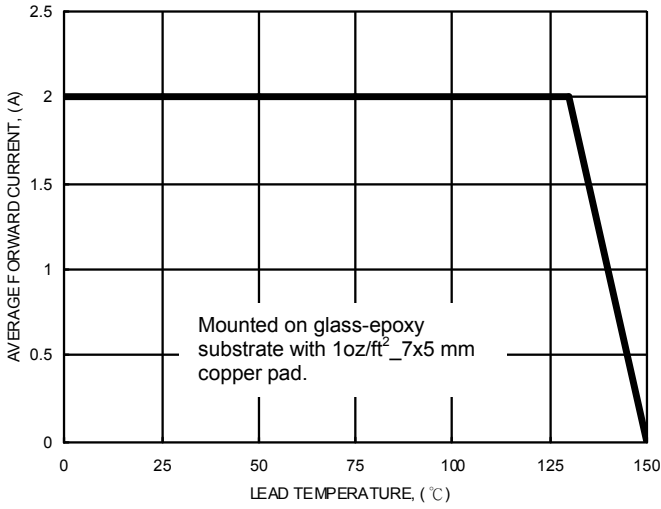


FIG. 2- MAXIMUM NON-REPETITIVE SURGE CURRENT

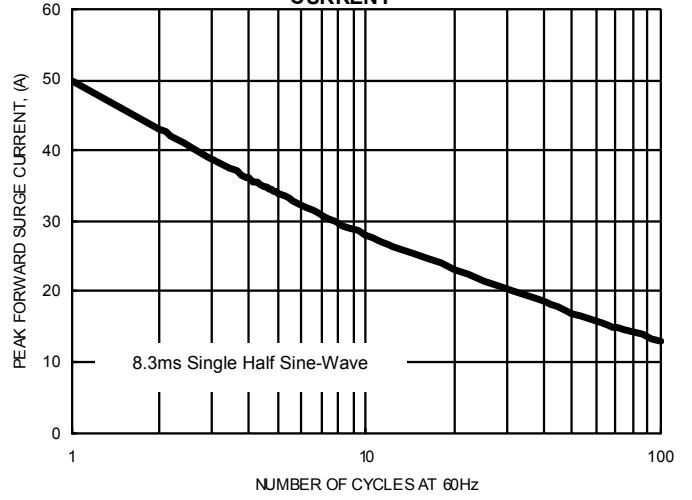


FIG. 3- TYPICAL JUNCTION CAPACITANCE

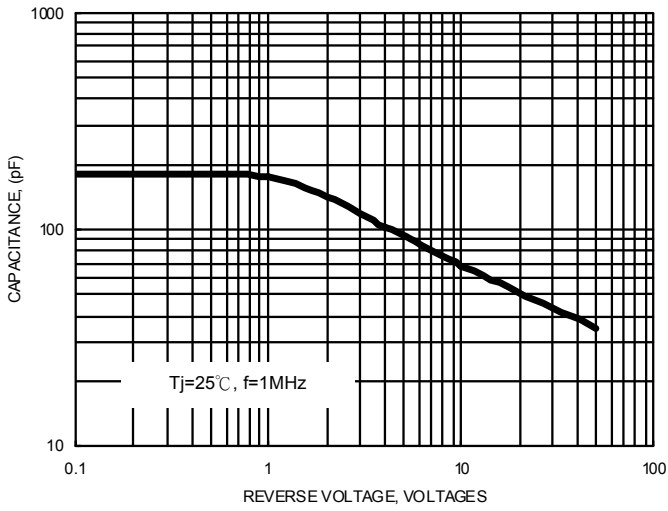


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

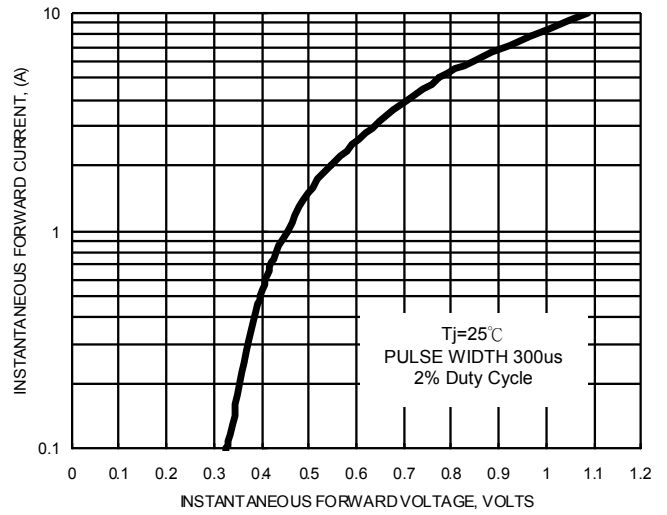


FIG. 5- TYPICAL REVERSE CHARACTERISTICS

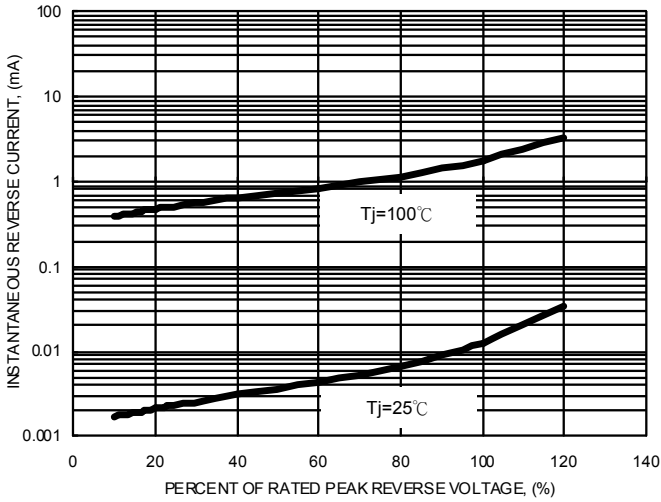
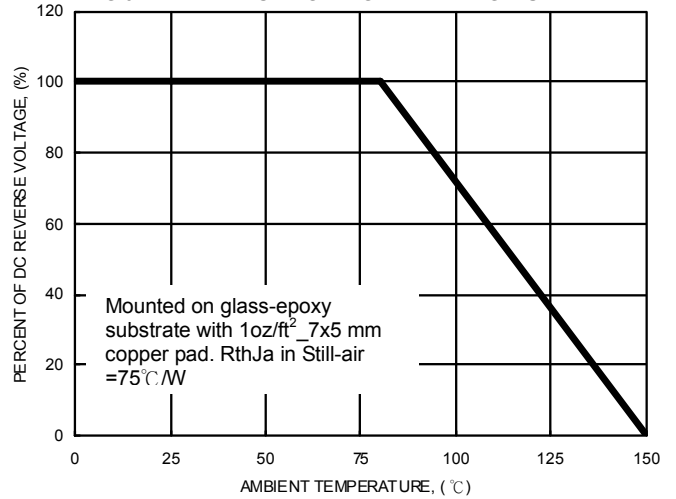


FIG. 6- DC REVERSE VOLTAGE DERATING CURVE



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