

**SURFACE MOUNT  
SCHOTTKY BARRIER RECTIFIERS**

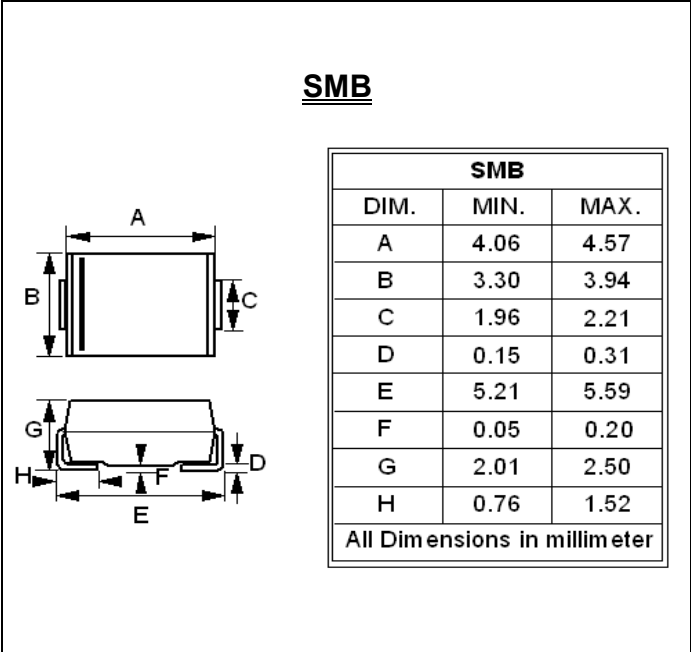
**REVERSE VOLTAGE – 50 to 60 Volts**  
**FORWARD CURRENT – 3.0 Amperes**

**FEATURES**

- For surface mounted application
- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Very Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application

**MECHANICAL DATA**

- Case: Molded plastic
- 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.  
 Single phase, half wave, 60Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

CHARACTERISTICS	SYMBOL	B350B	B360B	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	60	V
Maximum RMS Voltage	$V_{RMS}$	35	42	V
Maximum DC Blocking Voltage	VDC	50	60	A
Maximum Average Forward Rectified Current @ $T_L=100^\circ\text{C}$	$I_{AV}$	3.0		A
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	100		A
Maximum Forward Voltage at 3.0A DC	$V_F$	0.7		V
Maximum DC Reverse Current @ $T_j=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_j=100^\circ\text{C}$	$I_R$	0.5 15		mA
Typical Junction Capacitance (Note 1)	$C_j$	180		pF
Typical Thermal Resistance (Note 2, 4)	$R_{\theta JL}$	25		$^\circ\text{C/W}$
Typical Thermal Resistance (Note 3, 4)	$R_{\theta JA}$	95		$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_j$	-55 to +150		$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150		$^\circ\text{C}$

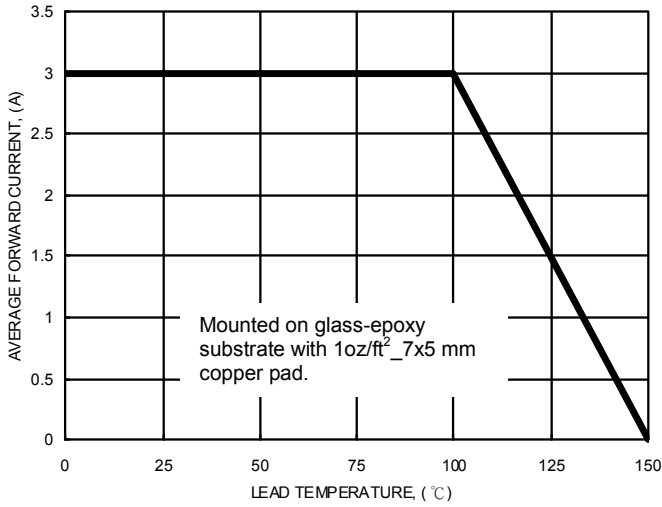
Note: (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC...  
 (2) Thermal Resistance Junction to Lead  
 (3) Thermal Resistance Junction to Ambient  
 (4) Unit mounted on glass epoxy substrate 1oz/ft<sup>2</sup> 7x5 mm copper pad.

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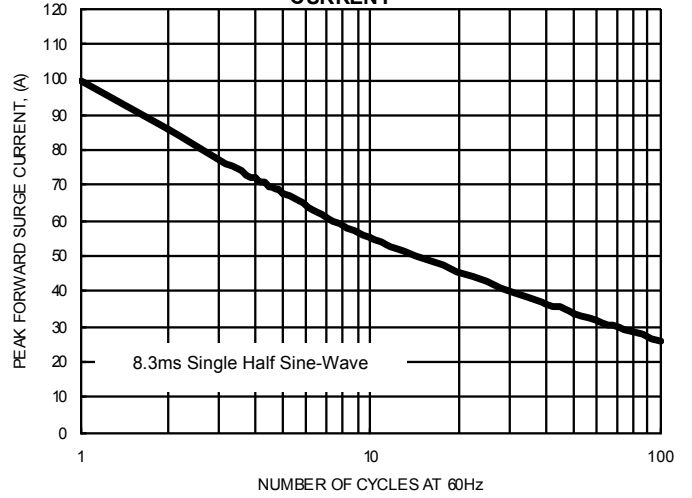
**RATING AND CHARACTERISTIC CURVES  
B350B thru B360B**



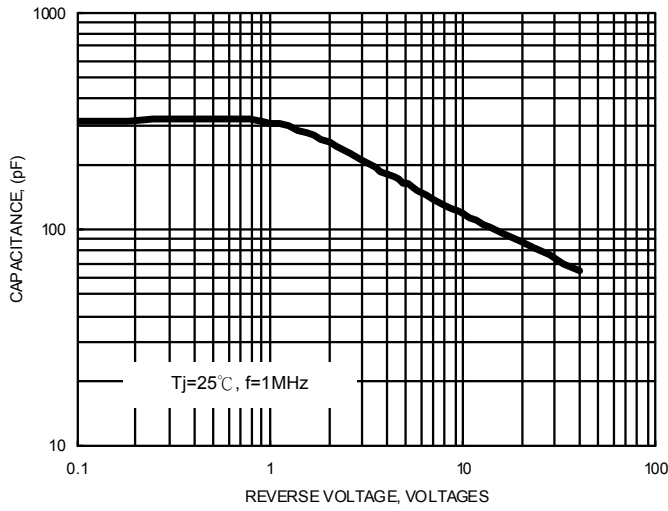
**FIG. 1- FORWARD CURRENT DERATING CURVE**



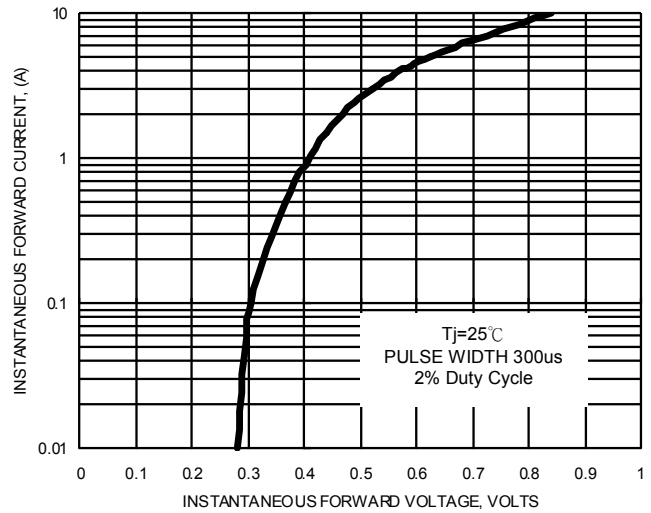
**FIG. 2- MAXIMUM NON-REPETITIVE SURGE CURRENT**



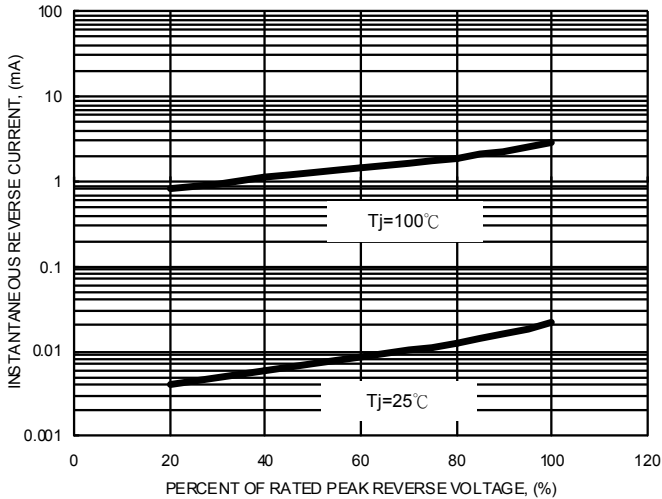
**FIG. 3- TYPICAL JUNCTION CAPACITANCE**



**FIG. 3- TYPICAL FORWARD CHARACTERISTICS**



**FIG. 5- TYPICAL REVERSE CHARACTERISTICS**



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

