

**SURFACE MOUNT  
SCHOTTKY BARRIER RECTIFIERS**

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

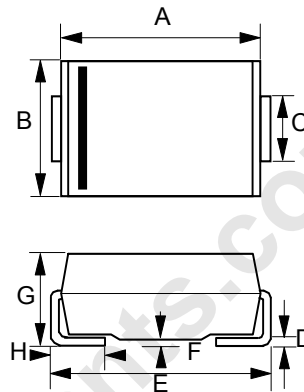
**FEATURES**

- 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: 0.007 ounces, 0.21 grams

**SMC**



SMC		
DIM.	MIN.	MAX.
A	6.60	7.11
B	5.59	6.22
C	2.92	3.18
D	0.15	0.31
E	7.75	8.13
F	0.05	0.20
G	2.01	2.50
H	0.76	1.52
All Dimensions in millimeter		

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

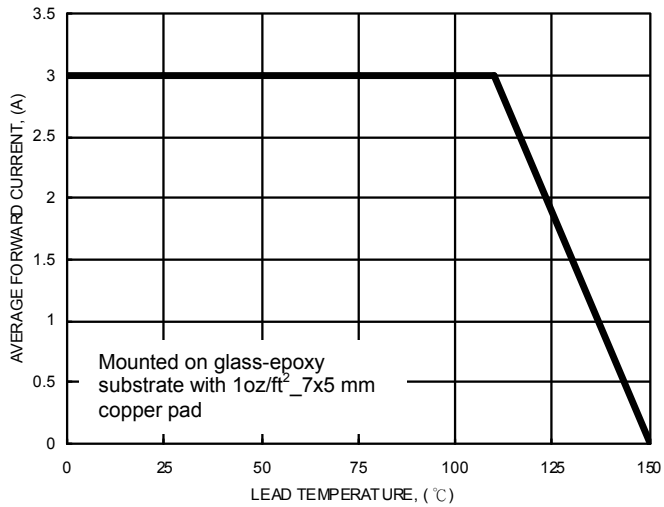
CHARACTERISTICS	SYMBOL	B350	B360	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	60	V
Maximum RMS Voltage	$V_{RMS}$	35	42	V
Maximum DC Blocking Voltage	VDC	50	60	A
Maximum Average Forward Rectified Current @ $T_L=110^{\circ}\text{C}$	$I_{AV}$	3.0		A
Peak Forward Surge 8.3ms single half sine-wave 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)	$C_j$	170		pF
Typical Thermal Resistance (Note 2, 4)	$R_{\theta JL}$	20		$^{\circ}\text{C/W}$
Typical Thermal Resistance (Note 3, 4)	$R_{\theta JA}$	60		$^{\circ}\text{C/W}$
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.

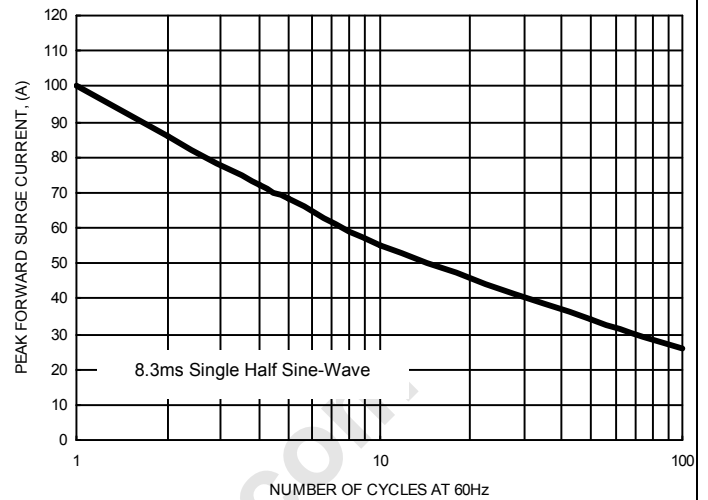
REV.2, Oct-2010, KSHC08

**RATING AND CHARACTERISTIC CURVES  
B350 thru B360**

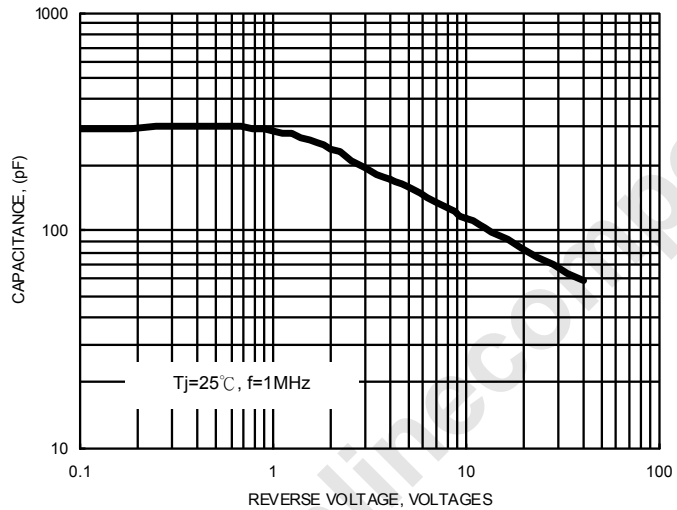
**FIG. 1- FORWARD CURRENT DERATING CURVE**



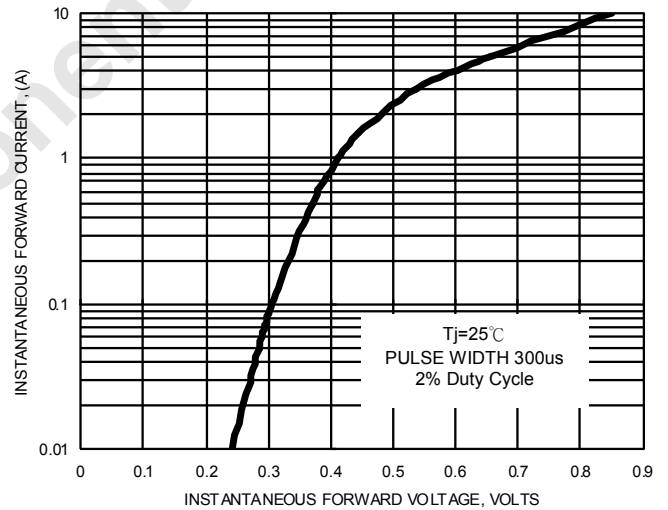
**FIG. 2- MAXIMUM NON-REPETITIVE SURGE CURRENT**



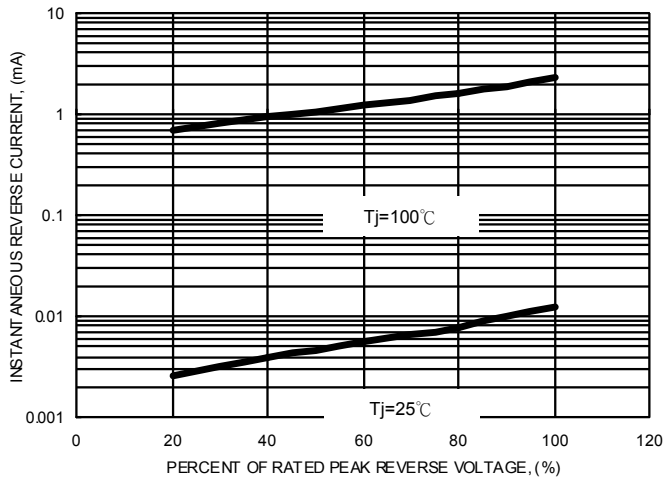
**FIG. 3- TYPICAL JUNCTION CAPACITANCE**



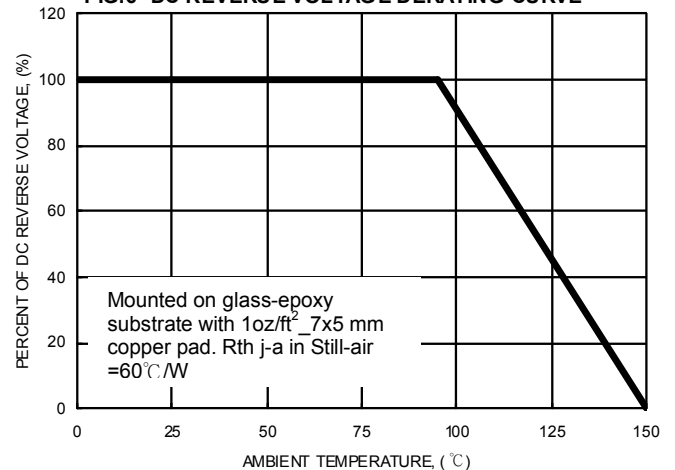
**FIG. 4- TYPICAL FORWARD CHARACTERISTICS**



**FIG. 5- TYPICAL REVERSE CHARACTERISTICS**



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



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