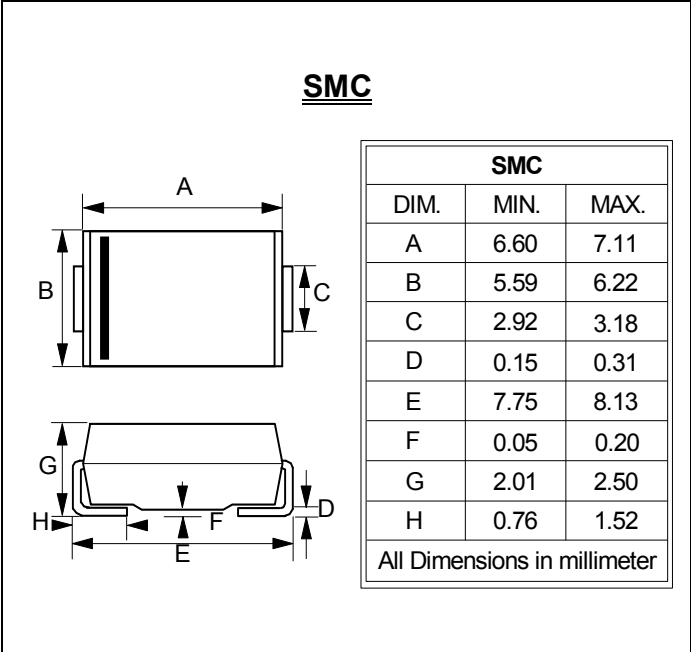


**SURFACE MOUNT  
SCHOTTKY BARRIER RECTIFIERS**

**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
  - For use in low voltage, high frequency inverters, free wheeling, and polarity protection application
  - IEC 61000-4-2, level 4 (ESD), > 15KV (air)
- 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: 0.007 ounces, 0.21 grams



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

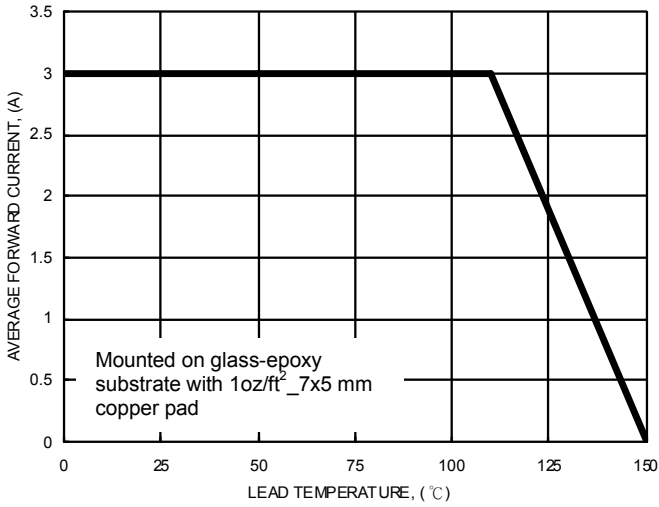
| CHARACTERISTICS  | SYMBOL          | B350        | B360 | UNIT          |
|--|-----------------|-------------|------|---------------|
| Maximum Repetitive Peak Reverse Voltage  | $V_{RRM}$       | 50          | 60   | V             |
| Maximum RMS Voltage  | $V_{RMS}$       | 35          | 42   | V             |
| Maximum DC Blocking Voltage  | VDC             | 50          | 60   | V             |
| Maximum Average Forward Rectified Current @ $T_L=110^{\circ}C$                                   | $I_{AV}$        | 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 at Rated DC Blocking Voltage @ $T_j=25^{\circ}C$ @ $T_j=100^{\circ}C$ | $I_R$           | 0.05<br>15  |      | mA            |
| Typical Junction Capacitance (Note 1)  | $C_j$           | 170         |      | pF            |
| Typical Thermal Resistance (Note 2, 4)   | $R_{\theta JL}$ | 20          |      | $^{\circ}C/W$ |
| Typical Thermal Resistance (Note 3, 4)   | $R_{\theta JA}$ | 60          |      | $^{\circ}C/W$ |
| Operating Junction Temperature Range   | $T_j$           | -55 to +150 |      | $^{\circ}C$   |
| Storage Temperature Range  | $T_{STG}$       | -55 to +150 |      | $^{\circ}C$   |

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.

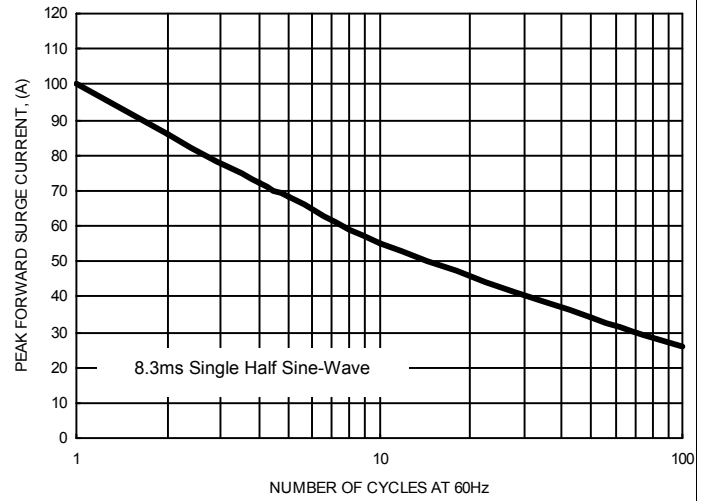
**RATING AND CHARACTERISTIC CURVES  
B350 thru B360**



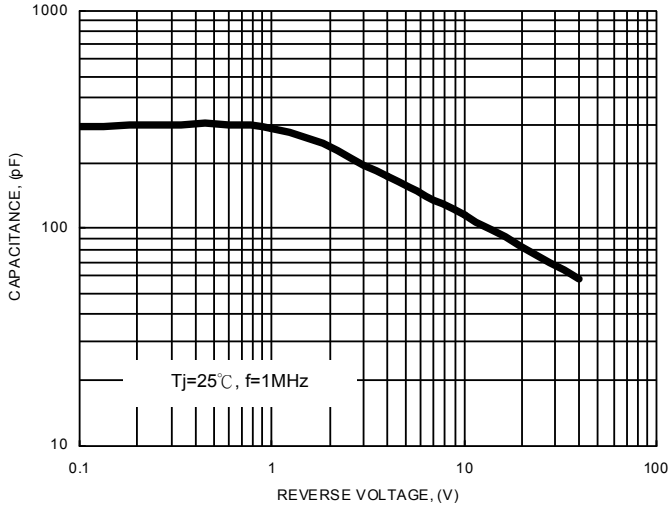
**FIG.1- FORWARD CURRENT DERATING CURVE**



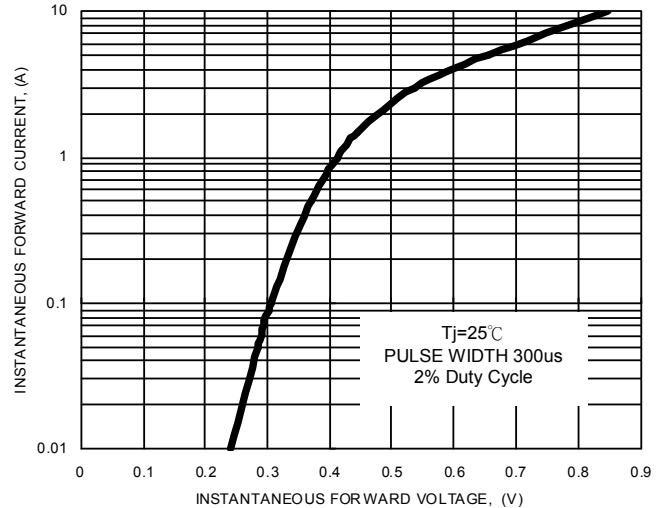
**FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT**



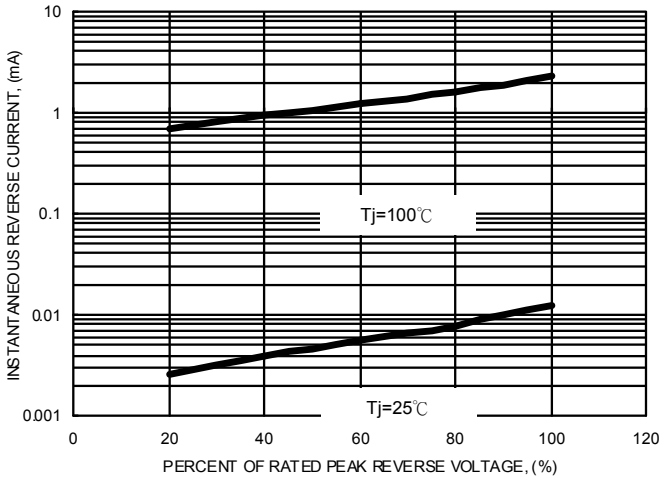
**FIG.3- TYPICAL JUNCTION CAPACITANCE**



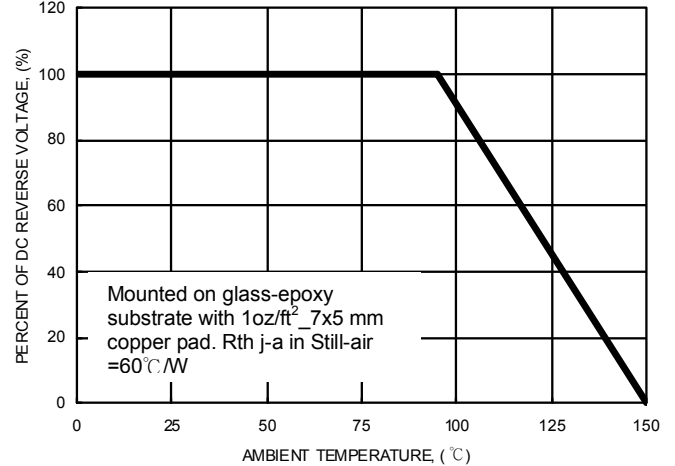
**FIG.4- TYPICAL FORWARD CHARACTERISTICS**



**FIG.5- TYPICAL REVERSE CHARACTERISTICS**



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



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