

# SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 70 to 100 Volts FORWARD CURRENT - 3.0 Amperes

#### **FEATURES**

- For surface mounted applications
- Metal-Semiconductor junction with guardring
- Epitaxial construction
- Very Low forward voltage drop
- High current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

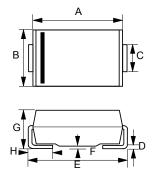
### **MECHANICAL DATA**

• Case : Molded plastic

• Case Material: Molding compound, UL Flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".

Polarity: Color band denotes cathodeWeight: 0.007 ounces, 0.21 grams

## SMC



| SMC                          |           |      |  |  |  |  |
|------------------------------|-----------|------|--|--|--|--|
| DIM.                         | MIN. MAX. |      |  |  |  |  |
| Α                            | 6.60      | 7.11 |  |  |  |  |
| В                            | 5.59      | 6.22 |  |  |  |  |
| С                            | 2.92      | 3.18 |  |  |  |  |
| D                            | 0.15      | 0.31 |  |  |  |  |
| Е                            | 7.75      | 8.13 |  |  |  |  |
| F                            | 0.05      | 0.20 |  |  |  |  |
| G                            | 2.01      | 2.50 |  |  |  |  |
| Н                            | 0.76      | 1.52 |  |  |  |  |
| All Dimensions in millimeter |           |      |  |  |  |  |

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

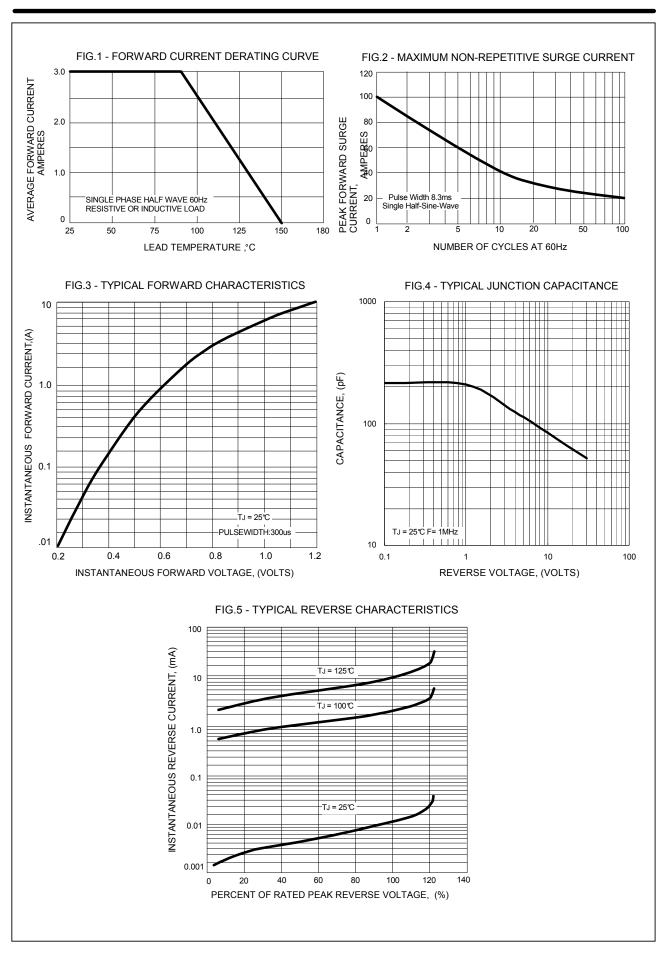
| CHARACTERISTIC   | S                     | SYMBOL | B370         | B380 | B390 | B3100 | UNIT |
|--|-----------------------|--------|--------------|------|------|-------|------|
| Maximum Recurrent Peak Revers  | e Voltage             | VRRM   | 70           | 80   | 90   | 100   | V    |
| Maximum RMS Voltage  |                       | VRMS   | 49           | 56   | 63   | 70    | V    |
| Maximum DC Blocking Voltage  |                       | VDC    | 70           | 80   | 90   | 100   | V    |
| Maximum Average Forward Rectified Current  | @TL=90°C              | I(AV)  | 3.0          |      |      |       | А    |
| Peak Forward Surge Current<br>8.3ms single half sine-wave<br>super imposed on rated load |                       | IFSM   | 100          |      |      |       | А    |
| Maximum Forward Voltage at 3.0A DC   | @TJ=25°C<br>@TJ=100°C | VF     | 0.79<br>0.69 |      |      |       | V    |
| Maximum DC Reverse Current at Rated DC Blocking Voltage                                  | @TJ=25°C<br>@TJ=100°C | lR     | 0.02<br>20   |      |      |       | mA   |
| Typical Junction<br>Capacitance (Note 1)   |                       | Cı     |              | 1:   | 25   |       | pF   |
| Typical Thermal Resistance (Note   | 2)                    | Rejl   |              | 1    | 2    |       | °C/W |
| Operating Temperature Range  |                       | TJ     | -55 to +150  |      |      |       | Ç    |
| Storage Temperature Range  |                       | Тѕтс   | -55 to +150  |      |      |       | °C   |

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal Resistance Junction to Lead.

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