

**SURFACE MOUNT
SCHOTTKY BARRIER RECTIFIERS**

REVERSE VOLTAGE - 70 to 100 Volts
FORWARD CURRENT - 1.0 Ampere

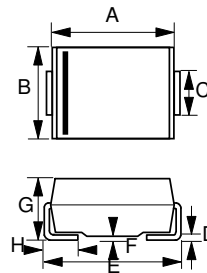
FEATURES

- 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 : Indicated by cathode band
- RoHS compliant
- Weight : 0.003 ounces, 0.093 grams

SMB



| SMB | | |
|------------------------------|------|------|
| DIM. | MIN. | MAX. |
| A | 4.06 | 4.57 |
| B | 3.30 | 3.94 |
| C | 1.96 | 2.21 |
| D | 0.15 | 0.31 |
| E | 5.21 | 5.59 |
| F | 0.05 | 0.20 |
| G | 2.01 | 2.50 |
| H | 0.76 | 1.52 |
| All Dimensions in millimeter | | |

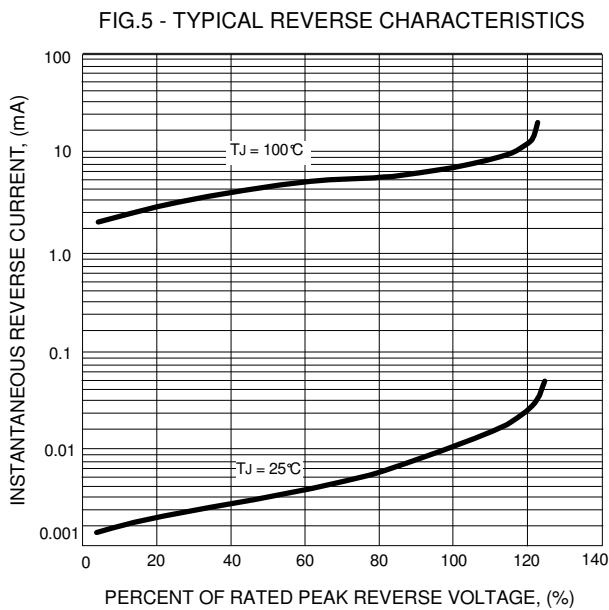
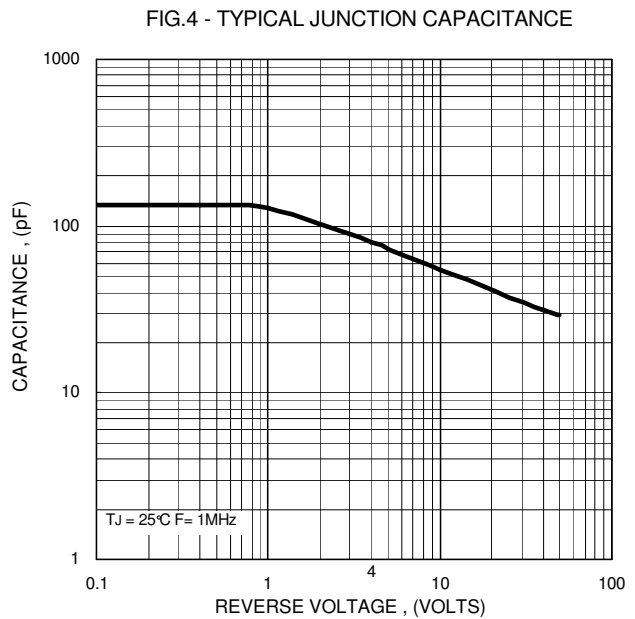
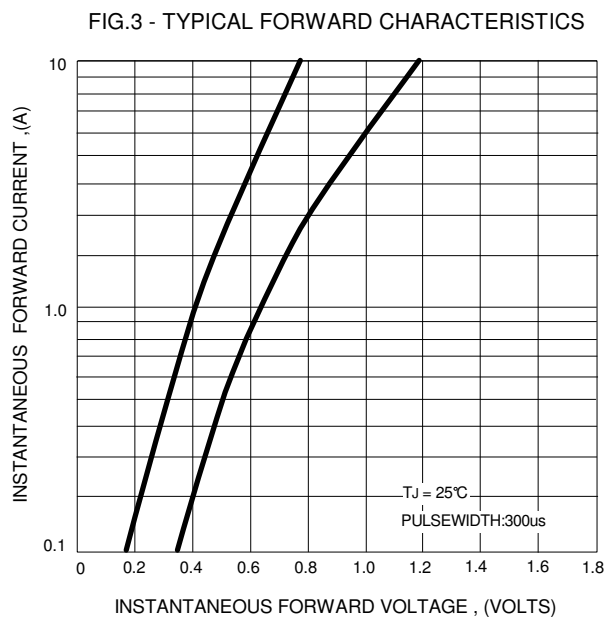
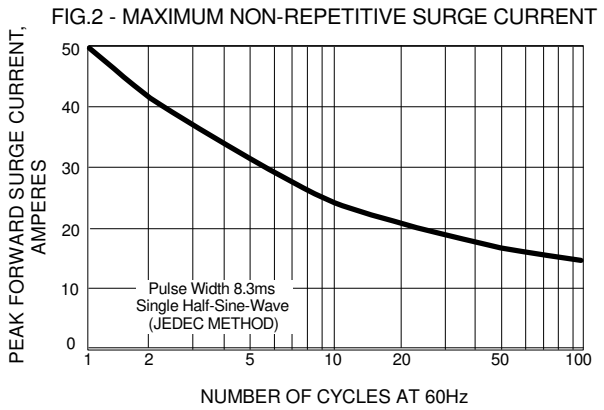
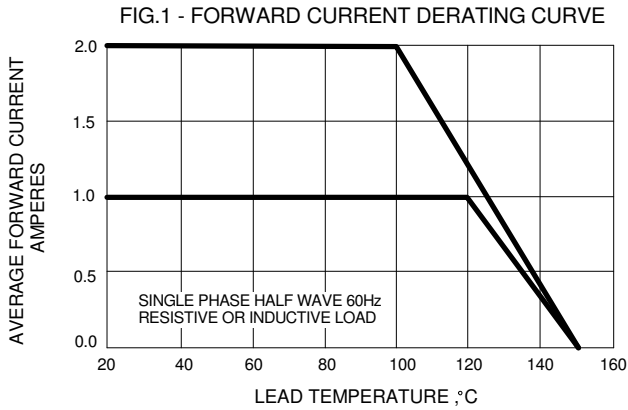
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| CHARACTERISTICS | SYMBOL | B170LB | B180LB | B190LB | B1100LB | UNIT |
|---|--------|-------------|--------|--------|---------|------|
| Maximum Recurrent Peak Reverse 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 =120°C @TL =100°C | IAV | 1.0 2.0 | | | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD) | IFSM | 50 | | | | A |
| Maximum forward Voltage at 1.0A DC @TJ =25°C | VF | 0.75 | | | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =25°C @TJ =100°C | IR | 0.5 15.0 | | | | mA |
| Typical Junction Capacitance (Note 1) | CJ | 80 | | | | pF |
| Typical Thermal Resistance (Note 2) | RθJL | 15 | | | | °C/W |
| Operating Temperature Range | TJ | -55 to +150 | | | | °C |
| Storage Temperature Range | TSTG | -55 to +150 | | | | °C |

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2.Thermal Resistance Junction to Lead.

REV.-7, Mar-2018, KSHB07



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