

**SURFACE MOUNT
SCHOTTKY BARRIER RECTIFIERS**

REVERSE VOLTAGE - **50 to 60** Volts
FORWARD CURRENT - **1.0** Ampere

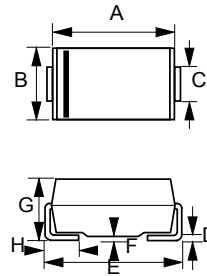
FEATURES

- 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
- 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 : Indicated by cathode band
- Weight : 0.002 ounces, 0.064 grams

SMA



| SMA | | |
|------------------------------|------|------|
| DIM. | MIN. | MAX. |
| A | 4.06 | 4.57 |
| B | 2.29 | 2.92 |
| C | 1.27 | 1.63 |
| D | 0.15 | 0.31 |
| E | 4.83 | 5.59 |
| F | 0.05 | 0.20 |
| G | 2.01 | 2.40 |
| H | 0.76 | 1.52 |
| All Dimensions in millimeter | | |

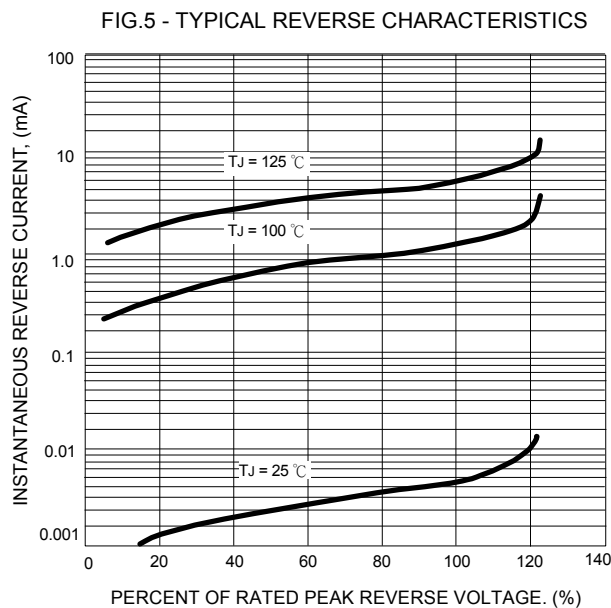
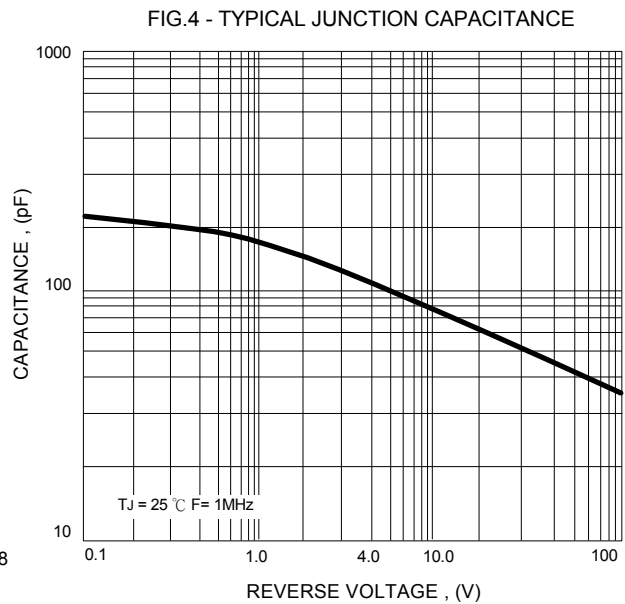
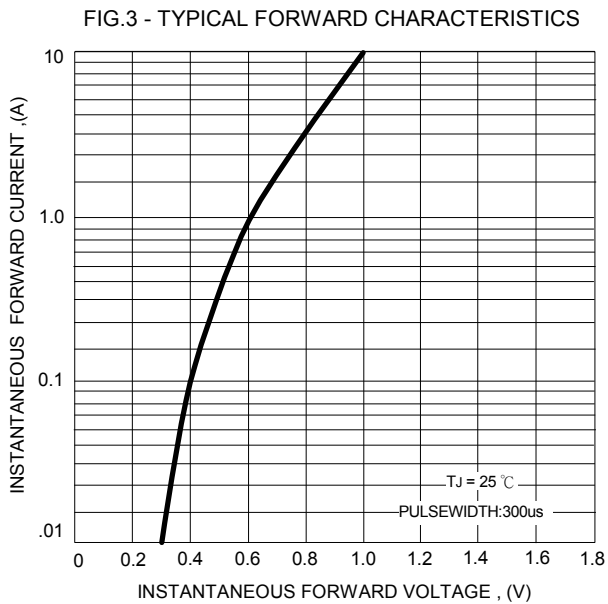
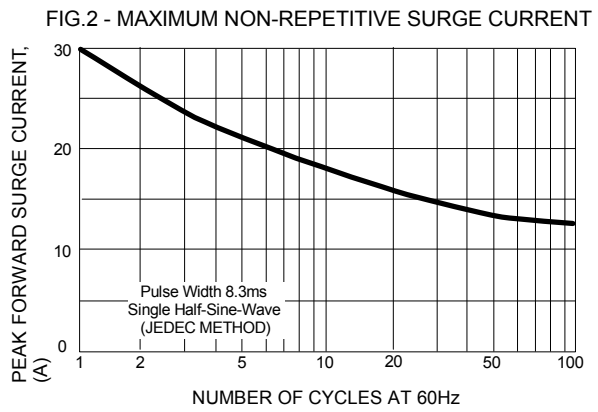
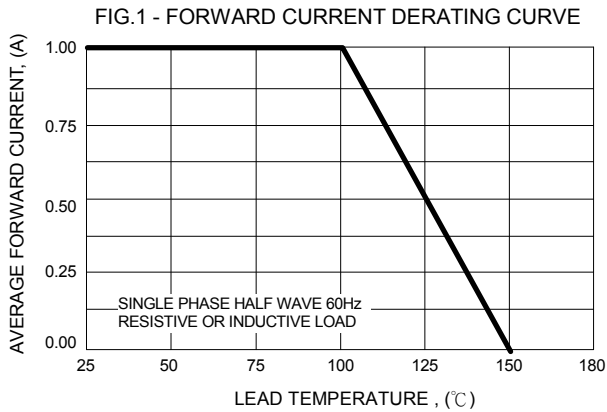
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| CHARACTERISTICS | SYMBOL | B150 | B160 | UNIT |
|---|--------|-------------|------|------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 50 | 60 | V |
| Maximum RMS Voltage | VRMS | 35 | 42 | V |
| Maximum DC Blocking Voltage | VDC | 50 | 60 | V |
| Maximum Average Forward Rectified Current @TL = 100 °C | I(AV) | 1.0 | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD) | IFSM | 30 | | A |
| Maximum forward Voltage at 1.0A DC | VF | 0.7 | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ = 25 °C @TJ = 100 °C | IR | 0.05 10 | | mA |
| Typical Junction Capacitance (Note 1) | CJ | 110 | | pF |
| Typical Thermal Resistance (Note 2) | ReJL | 20 | | °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. 10, Aug-2014, KSHA01



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