

Trench MOS Barrier Schottky Rectifier - 3Amp 100Volt

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

Mechanical data

- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Lead : Axial leads, solderable per MIL-STD-202,method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 1.2 grams

Maximum ratings and Electrical characteristics

| Parameters | | SB3100V(H) | UNIT |
|--|------------|-------------|------|
| Maximum Recurrent Peak Reverse Voltage | | 100 | V |
| Maximum RMS Voltage | | 70 | V |
| Maximum DC Blocking Voltage | | 100 | V |
| Maximum Average Forward Rectified Current | | 3 | A |
| Peak Forward Surge Current | | 80 | A |
| Maximum Instantaneous Forward Voltage at 3A | Tc = 25°C | 0.62 | V |
| | Tc = 125°C | 0.56 | |
| Maximum Average Reverse Current at Rated DC Blocking Voltage | Tc = 25°C | 0.1 | mA |
| | Tc = 125°C | 50 | |
| Typical Junction Capacitance | | 500 | pF |
| Typical Thermal Resistance R _{θJA} | | 25 | °C/W |
| Operating and Storage Temperature Range | | -50 to +150 | °C |

Note : 1. H means Halogen-Free

2. Mounted on P.C.B with copper pad size 16mm x 16mm, vertical P.C.B 9.5mm lead lengths

June 2015 / Rev.7.0

SB3100V(H)

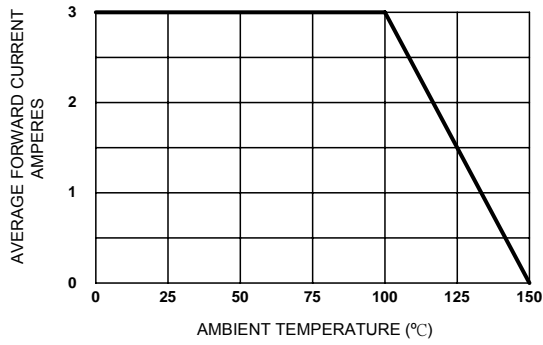


Figure 1. Forward Current Derating Curve

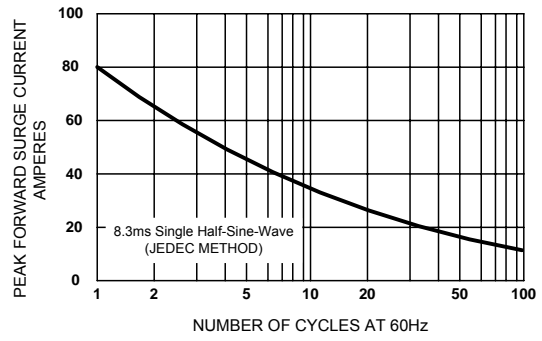


Figure 2. Maximum Non-repetitive Surge Current

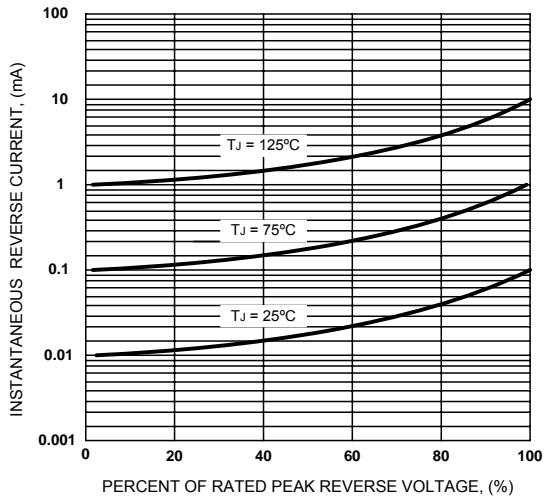


Figure 3. Typical Reverse Characteristics

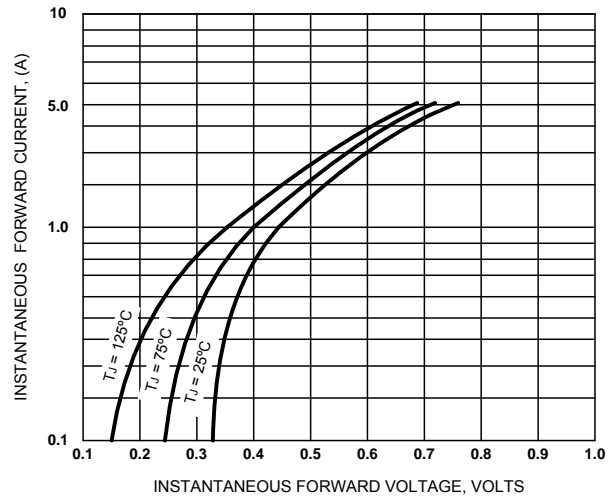


Figure 4. Typical Forward Characteristics

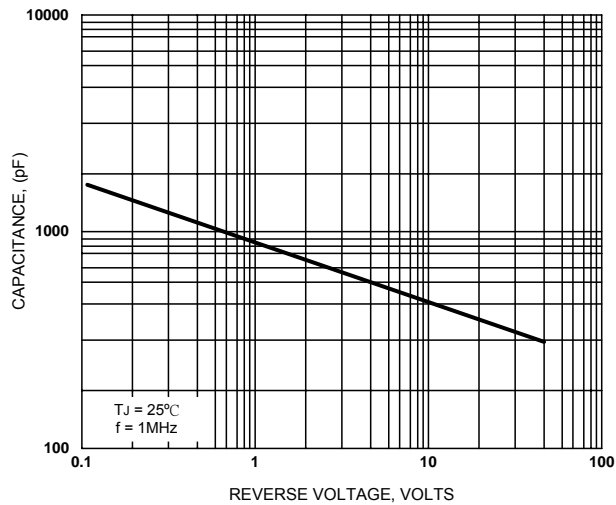


Figure 5. Typical Junction Capacitance



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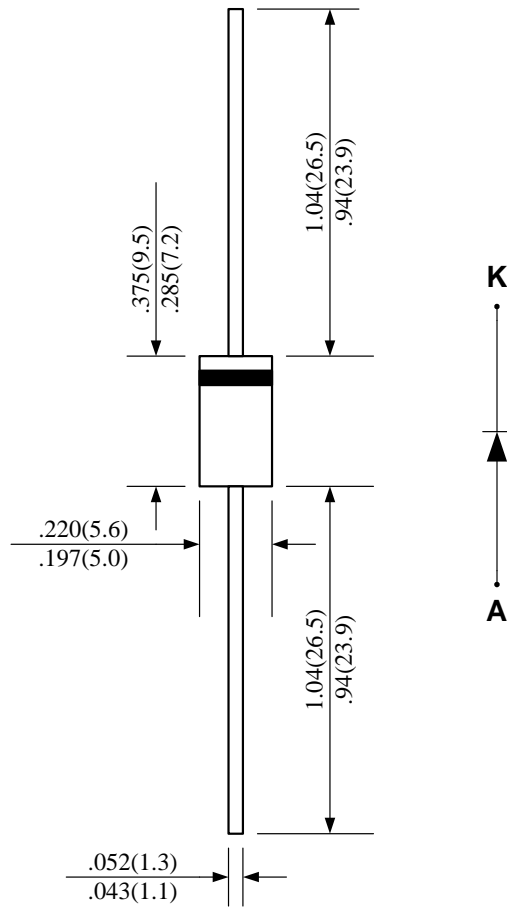
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SB3100V(H)

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D0-27 / D0-201AD



UNIT : inch(mm)