

Trench MOS Barrier Schottky Rectifier - 15Amp 45Volt

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 | | SB1545V(H) | UNIT |
|--|------------|-------------|------|
| Maximum Recurrent Peak Reverse Voltage | | 45 | V |
| Maximum RMS Voltage | | 31 | V |
| Maximum DC Blocking Voltage | | 45 | V |
| Maximum Average Forward Rectified Current | | 15 | A |
| Peak Forward Surge Current | | 150 | A |
| Maximum Instantaneous Forward Voltage at 15A | Tc = 25°C | 0.49 | V |
| | Tc = 125°C | 0.47 | |
| Maximum Average Reverse Current at Rated DC Blocking Voltage | Tc = 25°C | 0.2 | 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

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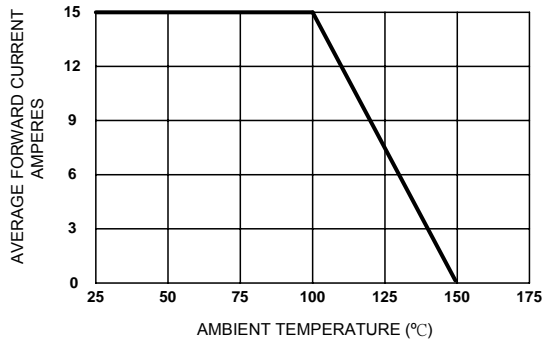


Figure 1. Forward Current Derating Curve

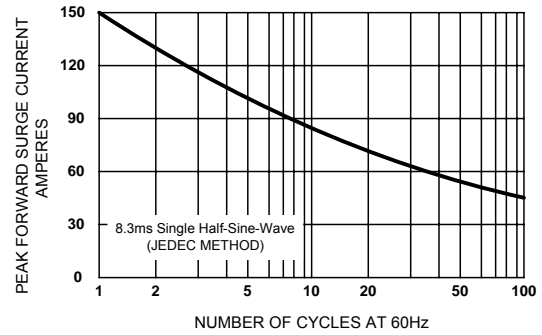


Figure 2. Maximum Non-repetitive Surge Current

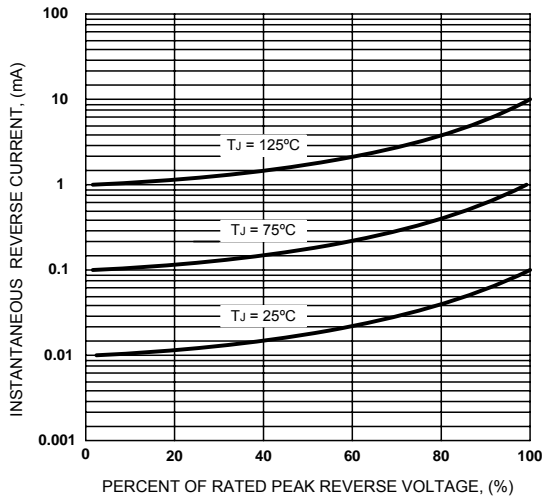


Figure 3. Typical Reverse Characteristics

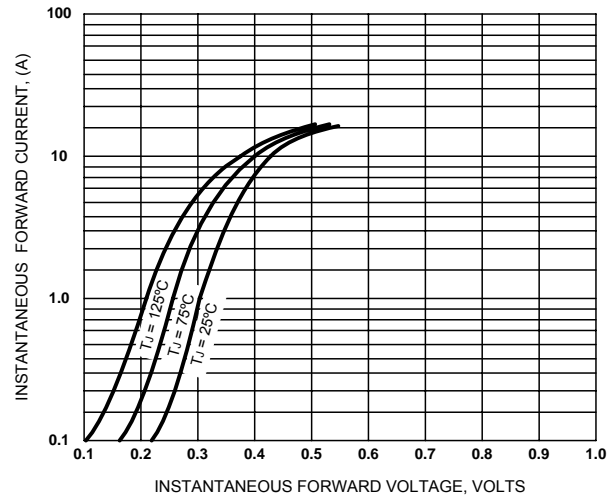


Figure 4. Typical Forward Characteristics

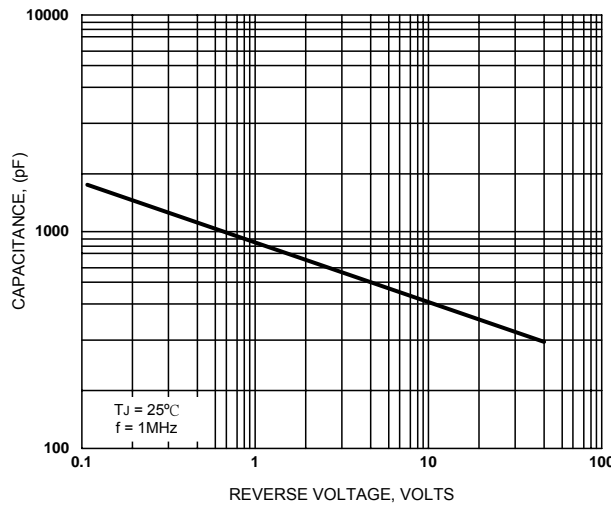


Figure 5. Typical Junction Capacitance



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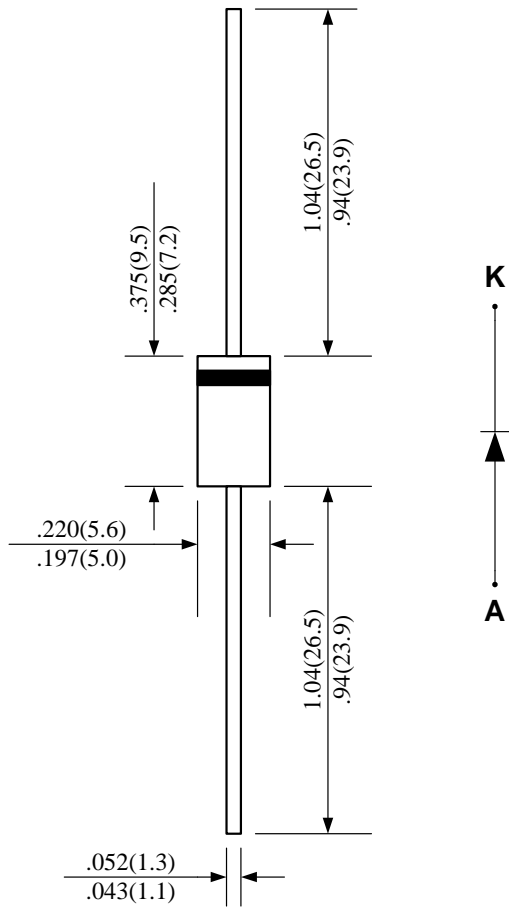
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D0-27 / D0-201AD



UNIT : inch(mm)