

Power Schottky Rectifier - 3Amp 150~200Volt

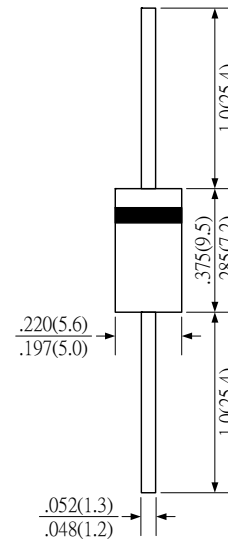
Features

- 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 : 1.10 grams

D0-27 / D0-201AD



Maximum ratings and Electrical characteristics

| TYPE | SB3150 | SB3200 | UNIT |
|--|------------|--------|------|
| Maximum Recurrent Peak Reverse Voltage | 150 | 200 | V |
| Maximum RMS Voltage | 105 | 140 | V |
| Maximum DC Blocking Voltage | 150 | 200 | V |
| Maximum Average Forward Rectified Current | 3.0 | | A |
| Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load | 80 | | A |
| Maximum Instantaneous Forward Voltage at 3.0A | 0.85 | 0.87 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | Ta = 25°C | 0.01 | mA |
| | Ta = 100°C | 10 | |
| Typical Junction Capacitance | 250 | | pF |
| Typical Thermal Resistance R _{θJA} | 20 | | °C/W |
| Operating Temperature Range T _J | -50 - 125 | | °C |
| Storage Temperature Range T _{STG} | -65 - 150 | | °C |

Note: Pulse Test : 380µs pulse width, 2% duty cycle

August 2007 / Rev.5

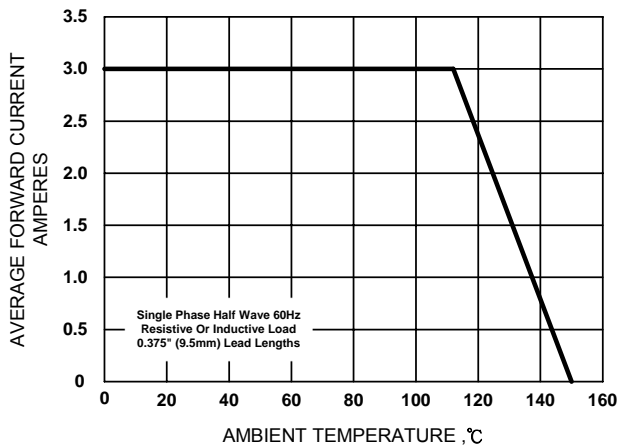


Figure 1. Forward Current Derating Curve

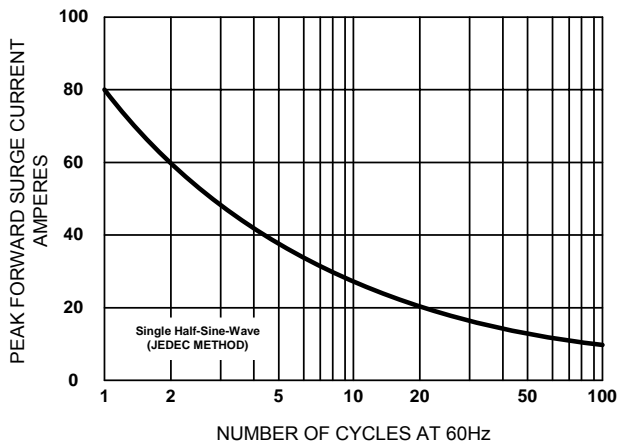


Figure 2. Maximum Non-repetitive Surge Current

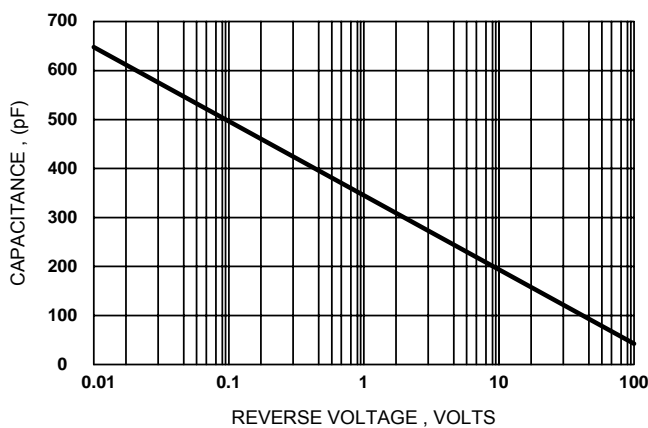


Figure 3. Typical Junction Capacitance

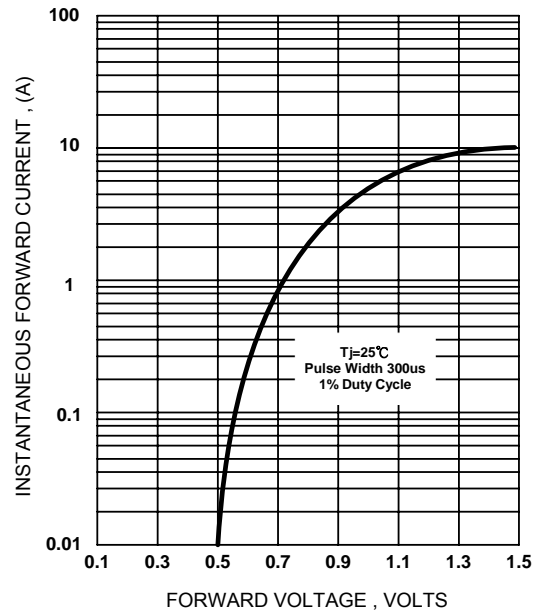


Figure 4. Typical Forward Characteristics

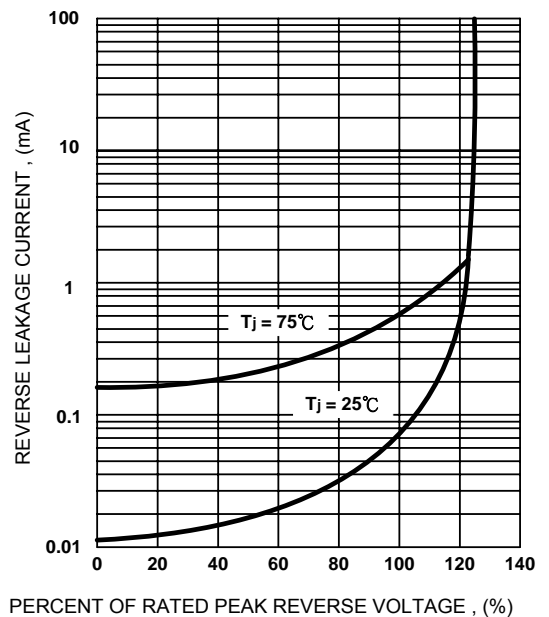


Figure 5. Typical Reverse Characteristics



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