

Power Schottky Rectifier - 3Amp 40~100Volt

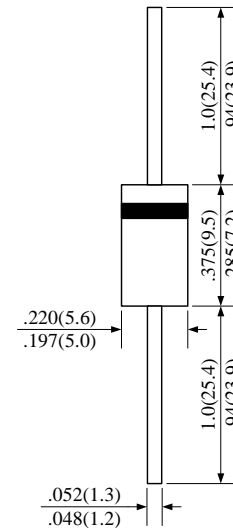
Features

- 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 : 1.10 grams

DO-27 / DO-201AD



Maximum ratings and Electrical characteristics

| TYPE | SB340E | SB360E | SB3100E | UNIT |
|--|-------------|--------|-------------|------|
| Maximum Recurrent Peak Reverse Voltage | 40 | 60 | 100 | V |
| Maximum RMS Voltage | 28 | 42 | 70 | V |
| Maximum DC Blocking Voltage | 40 | 60 | 100 | 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 | 0.55 | 0.65 | 0.82 | V |
| Repetitive peak avalanche power, tp = 1μs Tj = 25 °C | 1300 | 2000 | | W |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | Ta = 25°C | 0.5 | 0.3 | mA |
| | Ta = 100°C | 20 | 15 | |
| Typical Junction Capacitance | 250 | | | pF |
| Typical Thermal Resistance RθJA | 20 | | | °C/W |
| Operating Temperature Range Tj | -50 to +150 | | -50 to +175 | °C |
| Storage Temperature Range Tstg | -50 to +150 | | | |

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

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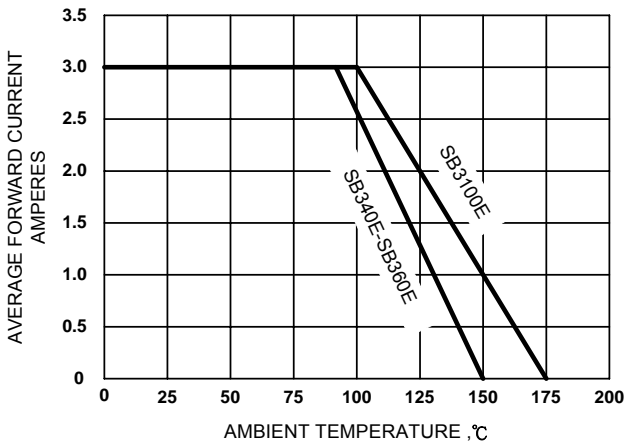


Figure 1. Forward Current Derating Curve

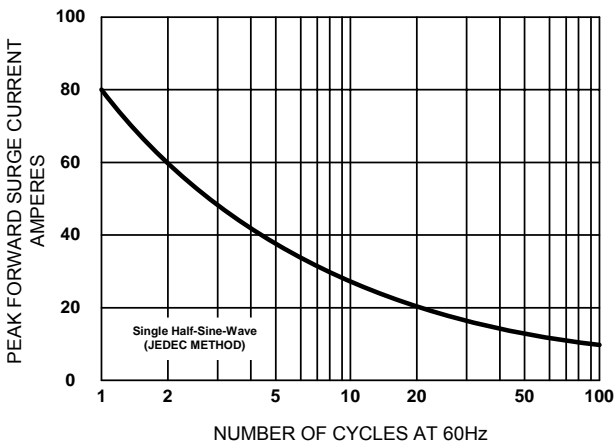


Figure 2. Maximum Non-repetitive Surge Current

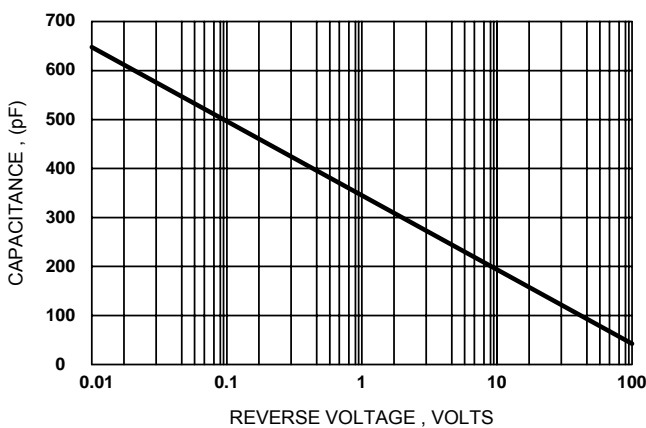


Figure 3. Typical Junction Capacitance

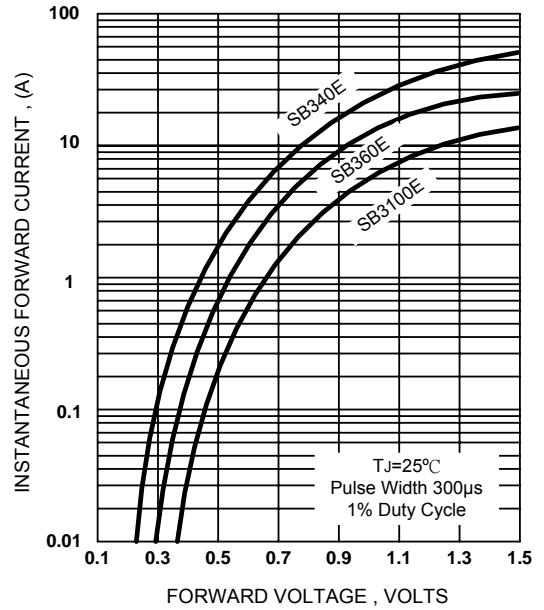


Figure 4. Typical Forward Characteristics

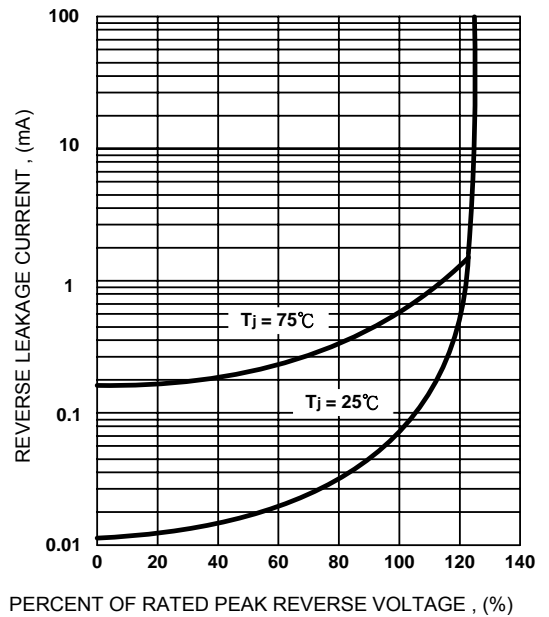


Figure 5. Typical Reverse Characteristics