

**Features**

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

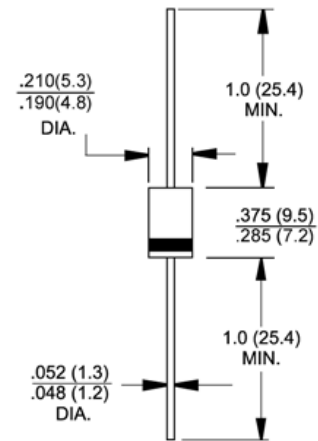
**Mechanical data**

- 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

**Maximum ratings and Electrical characteristics**



**DO-201AD**



| 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                                      | 0.89       |        | V    |
| Maximum DC Reverse Current at Rated DC Blocking Voltage                            | Ta = 25°C  | 0.5    | mA   |
|  | Ta = 100°C | 10     |      |
| Typical Junction Capacitance   | 250        |        | pF   |
| Typical Thermal Resistance R <sub>θJA</sub>  | 20         |        | °C/W |
| Operating Temperature Range T <sub>J</sub>   | -50 to 150 |        | °C   |
| Storage Temperature Range T <sub>STG</sub>   | -50 to 150 |        | °C   |

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

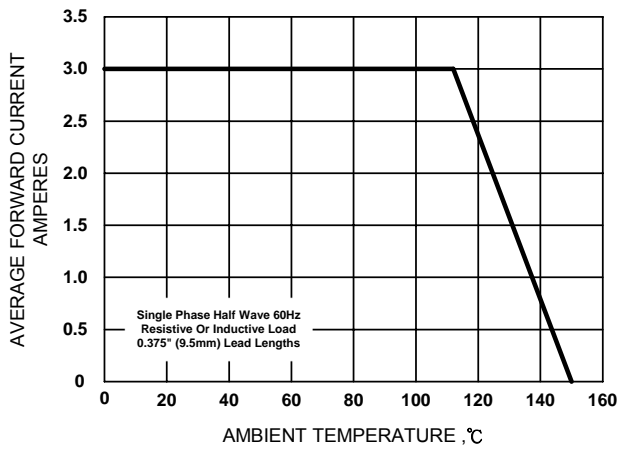


Figure 1. Forward Current Derating Curve

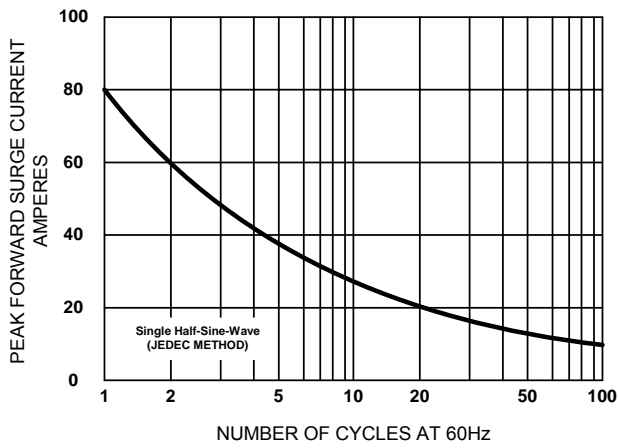


Figure 2. Maximum Non-repetitive Surge Current

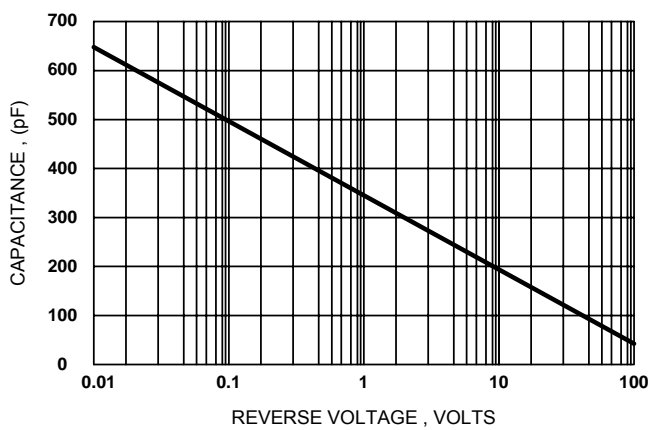


Figure 3. Typical Junction Capacitance

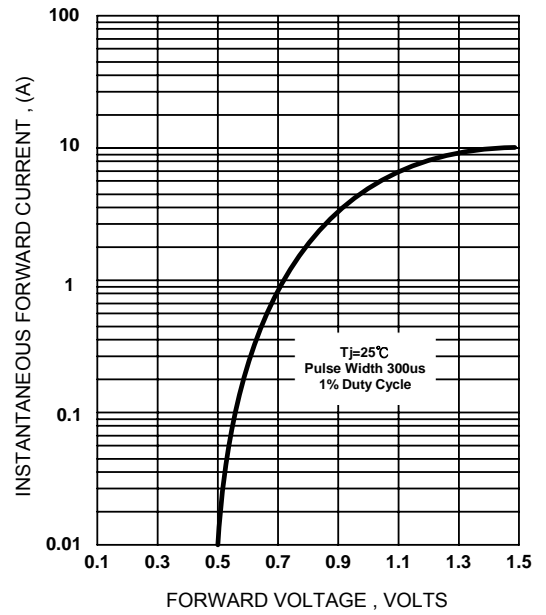


Figure 4. Typical Forward Characteristics

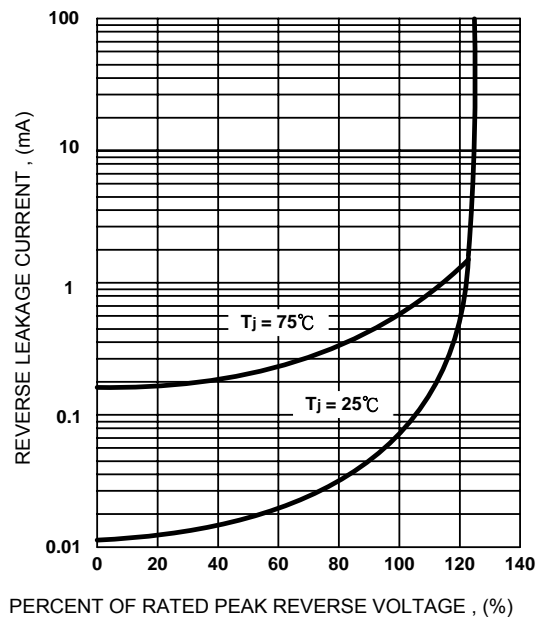


Figure 5. Typical Reverse Characteristics