

**Features**

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

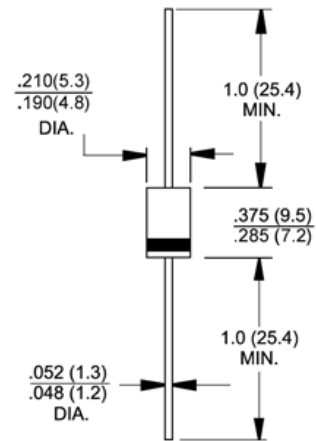
**Mechanical data**

- 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

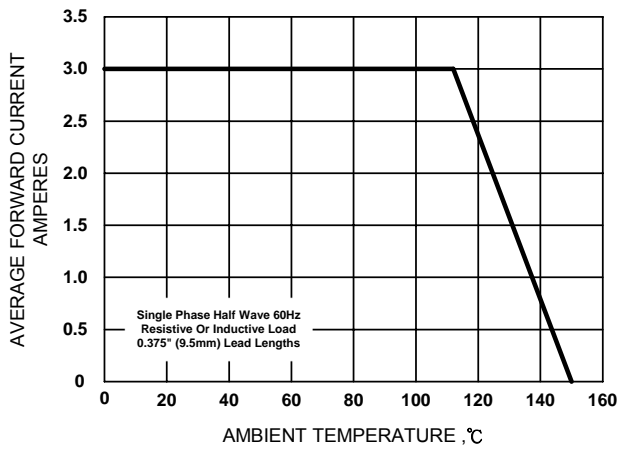


Figure 1. Forward Current Derating Curve

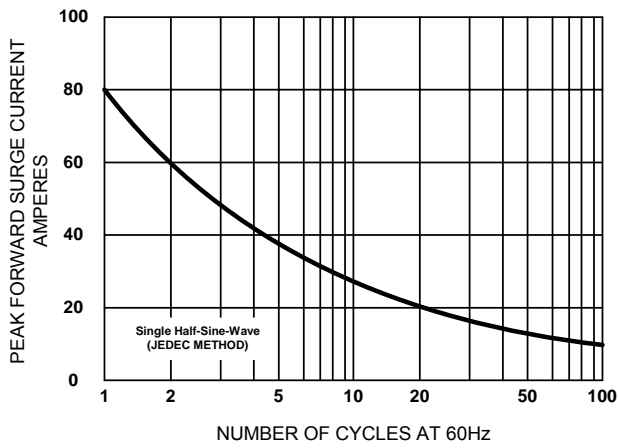


Figure 2. Maximum Non-repetitive Surge Current

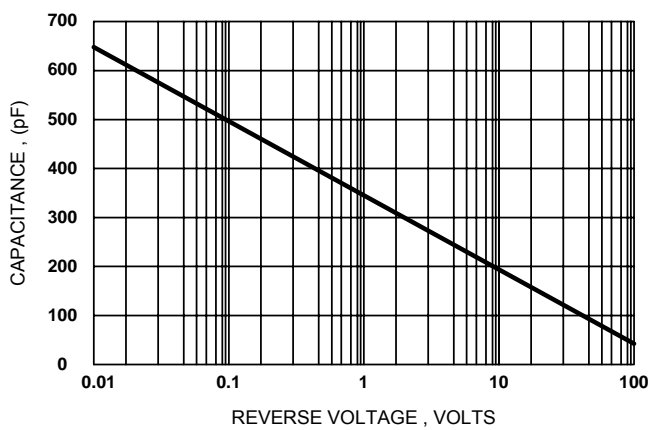


Figure 3. Typical Junction Capacitance

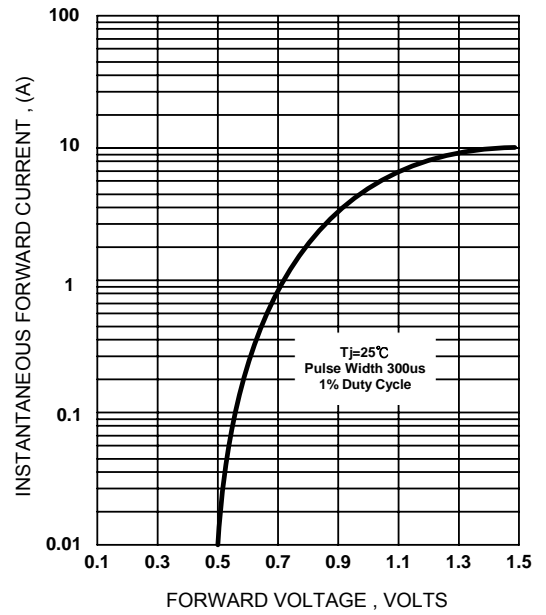


Figure 4. Typical Forward Characteristics

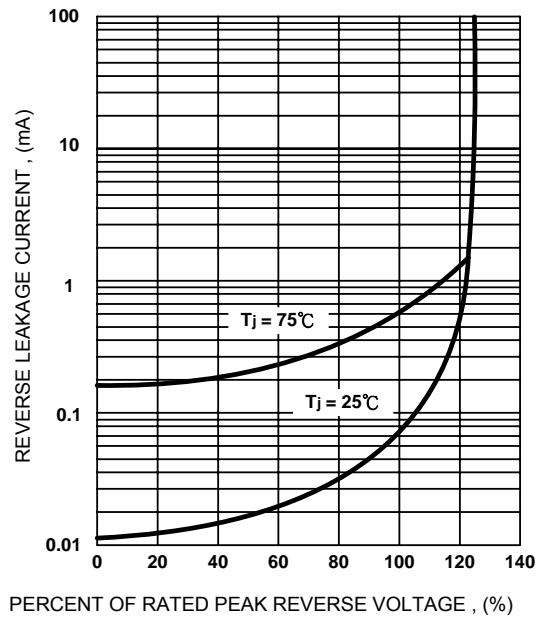


Figure 5. Typical Reverse Characteristics

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