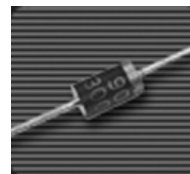


Features

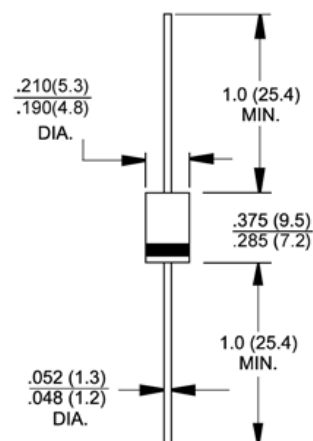
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction



DO-201AD

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

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		0.90		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta = 25°C	0.05		mA
	Ta = 100°C	20		
Typical Junction Capacitance		250		pF
Typical Thermal Resistance RθJA		15		°C/W
Operating Temperature Range TJ		-50 to 125		°C
Storage Temperature Range TSTG		-50 to 150		°C

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

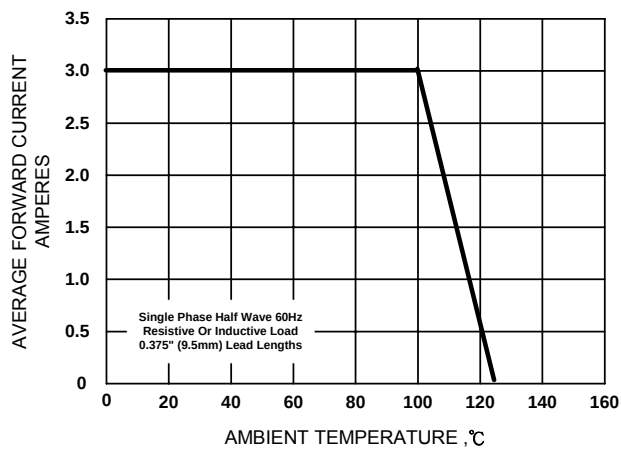


Figure 1. Forward Current Derating Curve

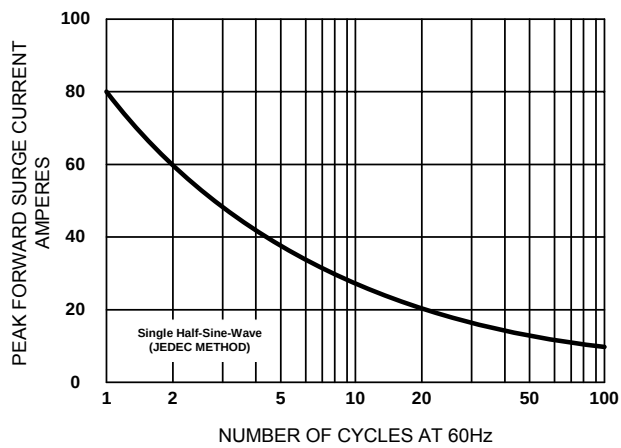


Figure 2. Maximum Non-repetitive Surge Current

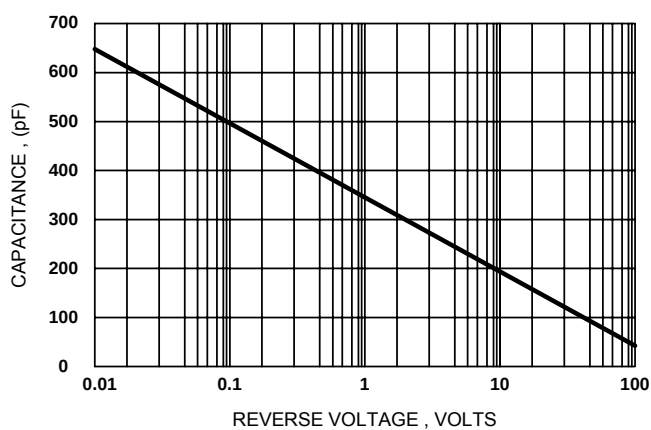


Figure 3. Typical Junction Capacitance

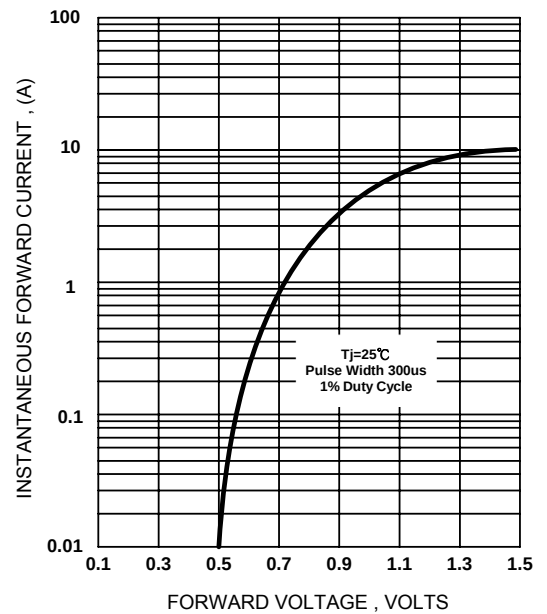


Figure 4. Typical Forward Characteristics

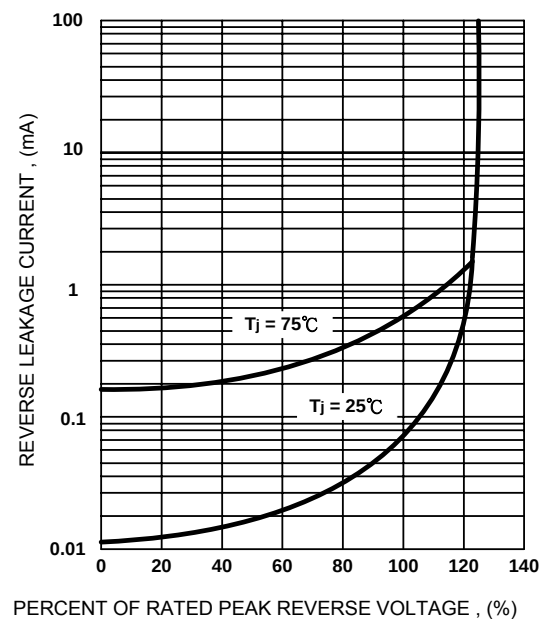


Figure 5. Typical Reverse Characteristics