

Schottky Diode



RoHS
Compliant



Features:

- High surge current capability
- Void-free plastic in DO-201AD package
- High current operation 3A at $T_L = 75^\circ\text{C}$
- Exceeds environmental standards of MIL-S-19500/228

Specifications:

Mechanical Data:

Case	: Moulded plastic DO-201AD
Terminals	: Axial leads, solderable per MIL-STD-202, Method 208
Polarity	: Colour band denotes cathode
Mounting position	: Any
Weight	: 0.04oz, 1.1g

Maximum Ratings and Electrical Characteristics:

At $T_A = 25^\circ\text{C}$ unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

All values except maximum RMS voltage are registered JEDEC parameters.

Parameters	SB350	SB360	Units
Maximum Recurrent Peak Reverse Voltage	50	60	V
Maximum RMS Voltage	35	42	
Maximum DC Blocking Voltage	50	60	
Maximum Average Forward Rectified Current at 75°C	3		A
Maximum Overload Surge Current at 1 cycle	80		
Maximum Forward Voltage at 3A DC	0.75		V
Maximum Full Load Reverse Current, Full Cycle Average at 25°C	0.5		mA DC
Maximum DC Reverse Current at Rated DC Reverse Voltage and 100°C	30		

Schottky Diode



Parameters	SB350	SB360	Units
Typical Junction Capacitance (Note 1)	180		pF
Typical Thermal Resistance (Note 2) R θ JA	40		°C/W
Operating and Storage Temperature Range	-50 to +125		°C

Notes:

1. Measured at 1MHz and applied reverse voltage of 4V DC.
2. Thermal resistance junction to ambient.

Ratings and Characteristic Curves

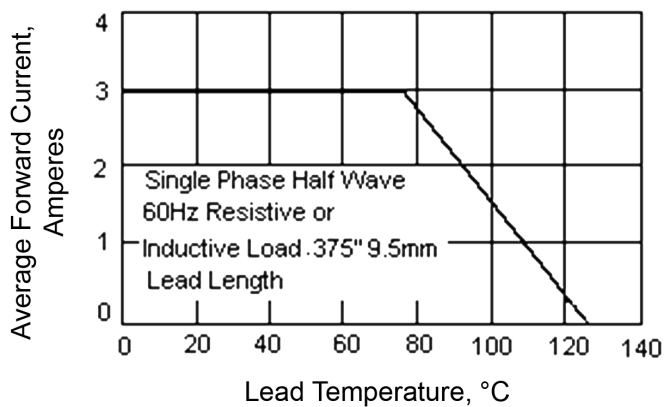


Figure 1 - Forward Current Derating Curve

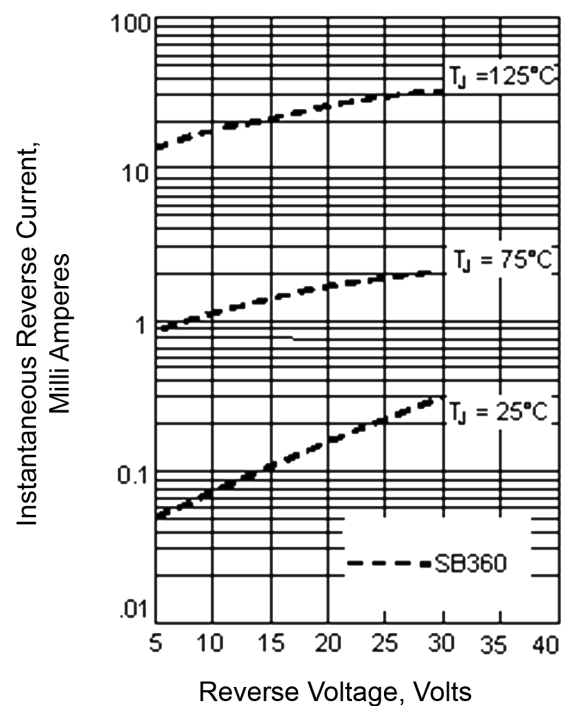


Figure 2 - Typical Reverse Characteristics

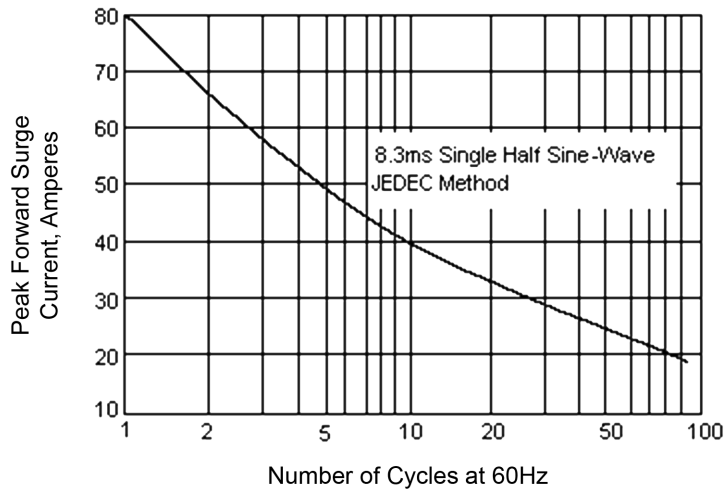


Figure 3 - Maximum Non-Repetitive Surge Current

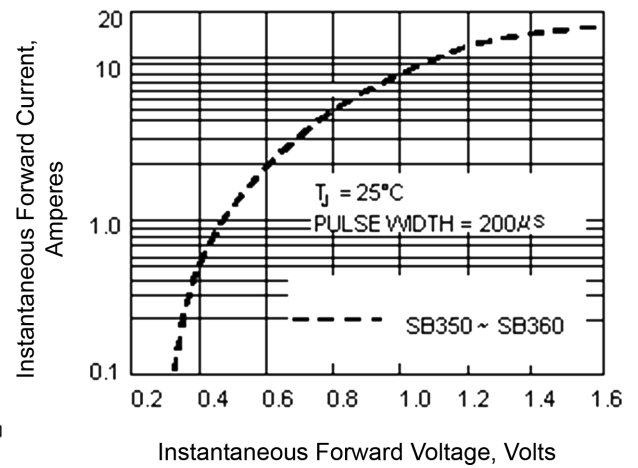


Figure 4 - Typical Forward Characteristics

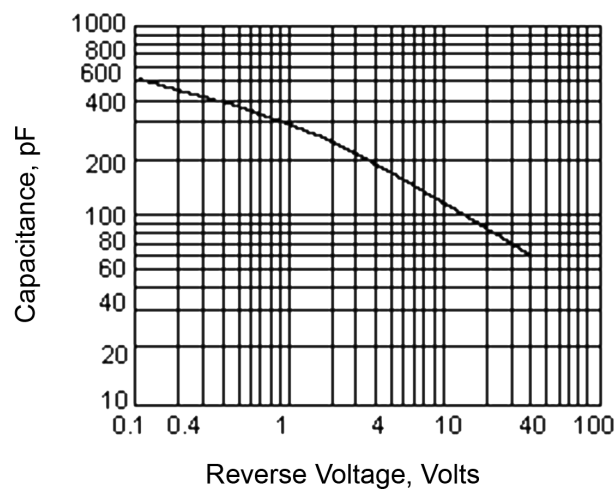
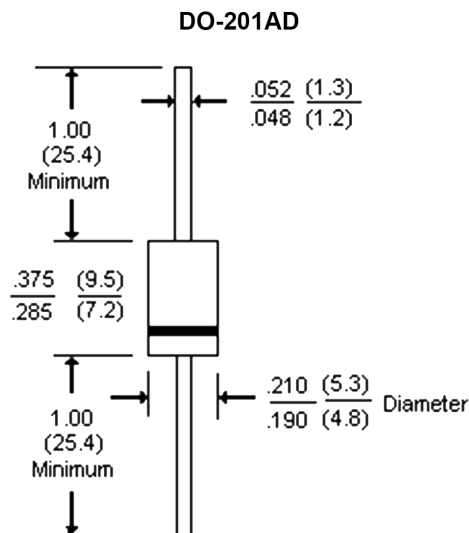


Figure 5 - Typical Junction Capacitance

Schottky Diode



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Diode, Schottky, 3A, 50V	SB350
Diode, Schottky, 3A, 60V	SB360

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