

SB350, 360

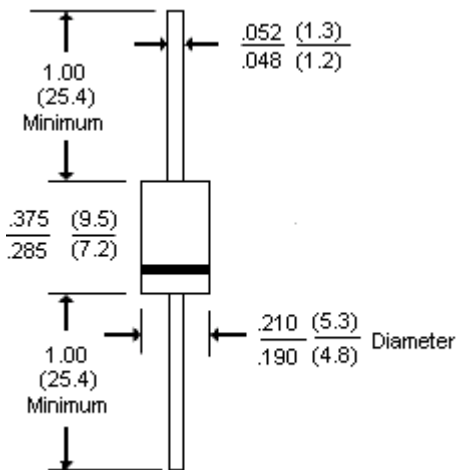
Schottky Barrier Rectifiers



Axial



DO-201AD



Dimensions : Inches (Millimetres)

Features:

- High surge current capability.
- Void-free plastic in DO-201AD package.
- High current operation 3.0 Ampere at $T_L = 75^\circ\text{C}$
- Exceeds environmental standards of MIL-S-19500/228.

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	: 0.04 Ounce, 1.1 Grams.

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.

Parameter	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	3.0		A
Maximum overload surge current at 1 cycle	80		
Maximum forward voltage at 3.0 A 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		
Typical junction capacitance (Note 1)	180		pF
Typical thermal resistance (Note 2) $R_{\theta JA}$	40.0		$^\circ\text{C}/\text{W}$
Operating and Storage temperature range	-50 to +125		$^\circ\text{C}$

Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0V dc.
2. Thermal resistance junction to ambient.



Rating and Characteristics Curves

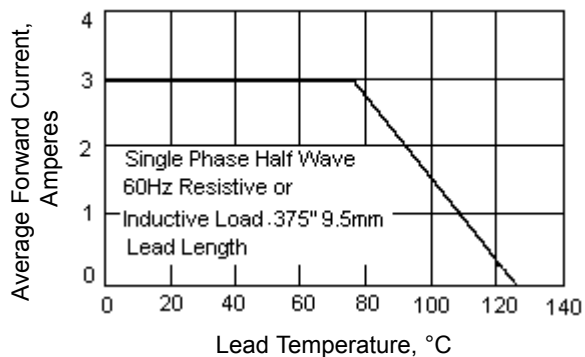


Figure 1 - Forward Current Derating Curve

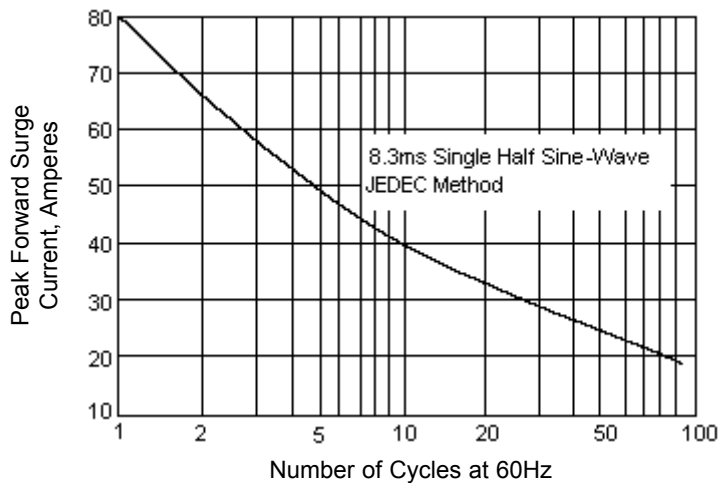


Figure 3 - Maximum Non-Repetitive Surge Current

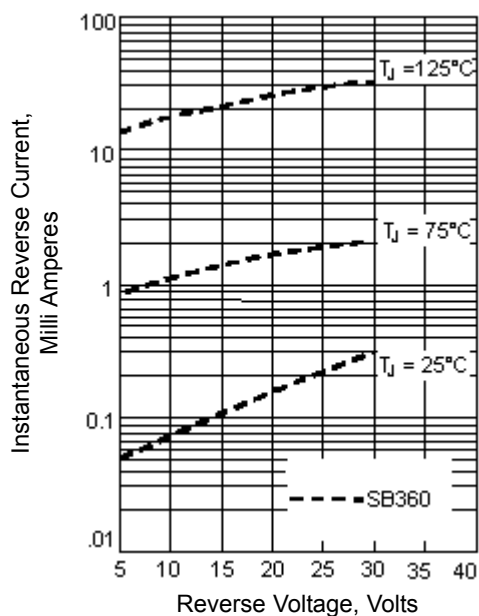


Figure 2 - Typical Reverse Characteristics

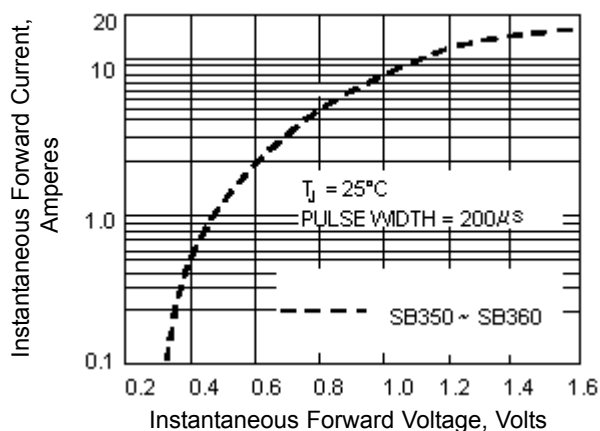


Figure 4 - Typical Forward Characteristics

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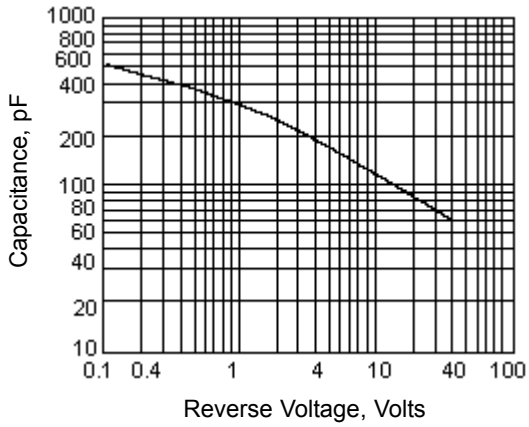


Figure 5 - Typical Junction Capacitance

Specifications

V_{RRM} maximum (V)	$I_{F(av)}$ maximum (A)	V_F (V)	I_{FSM} (A)	Length	Diameter	Part Number
50	3	0.75 at $I_F = 3A$	80	9.5	5.3	SB350
60						SB360

Dimensions : Millimetres



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Notes:

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