

Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

Characteristic	Symbol	SB320	SB330	SB340	SB350	SB360	Unit
Peak Repetitive Reverse Voltage	V _{RRM}						
Working Peak Reverse Voltage	V _{RWM}	20	30	40	50	60	V
DC Blocking Voltage (Note 6)	V _R						
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	35	42	V
Average Rectified Output Current (Note 5) (See Figure 1)	I _O	3.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms	I _{FSM}	80					A
Single Half Sine-Wave Superimposed on Rated Load							

Thermal Characteristics

Characteristic	Symbol	SB320	SB330	SB340	SB350	SB360	Unit
Typical Thermal Resistance (Note 7)	R _{θJA}	30					°C/W
	R _{θJL}	10					°C/W
Operating Temperature Range	T _J	-65 to +125			-65 to +150		°C
Storage Temperature Range	T _{STG}	-65 to +150					°C

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	SB320	SB330	SB340	SB350	SB360	Unit
Forward Voltage @ I _F = 3.0A	V _{FM}	0.50			0.74		V
Peak Reverse Current @ T _A = +25°C	I _{RM}	0.5					mA
at Rated DC Blocking Voltage (Note 6) @ T _A = +100°C		20			10		

Notes: 5. Measured at ambient temperature at a distance of 9.5mm from the case.
 6. Short duration pulse test used to minimize self-heating effect.
 7. Thermal resistance from junction to lead vertical P.C.B. mounted, 0.500" (12.7mm) lead length with 2.5" × 2.5" (63.5mm × 63.5mm) copper pad.

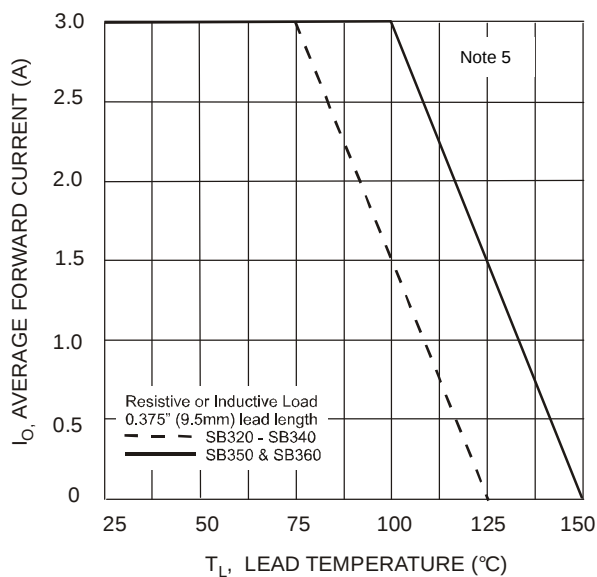


Fig. 1 Forward Current Derating Curve

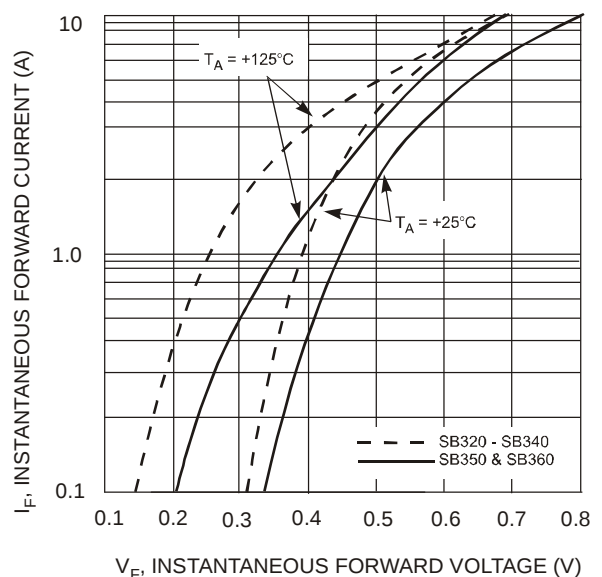


Fig. 2 Typical Forward Characteristics

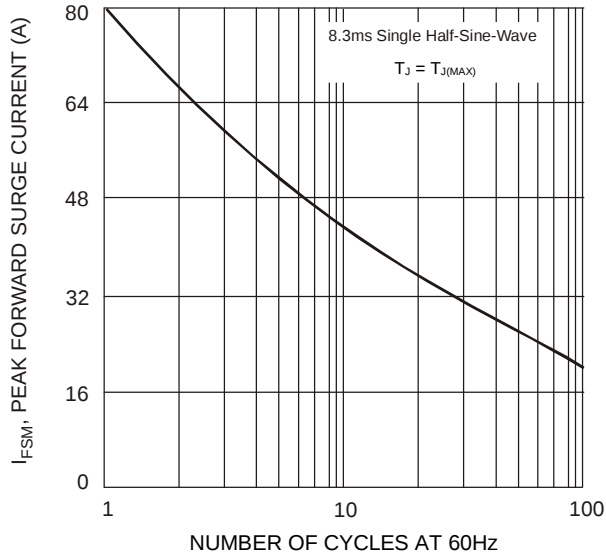


Fig. 3 Max Non-Repetitive Peak Forward Surge Current

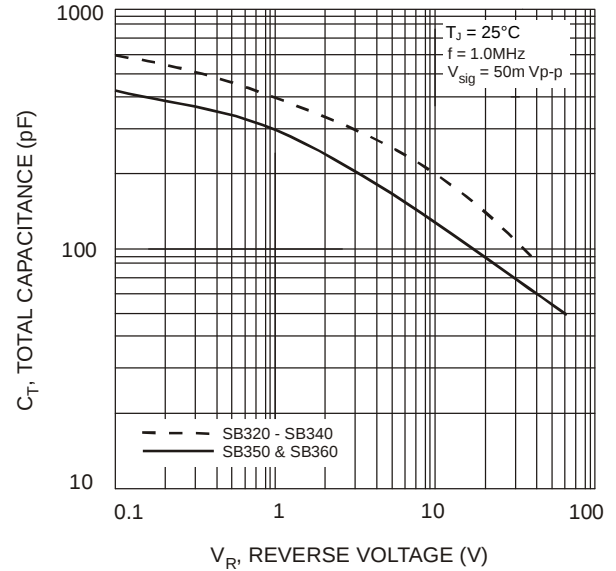


Fig. 4 Typical Total Capacitance

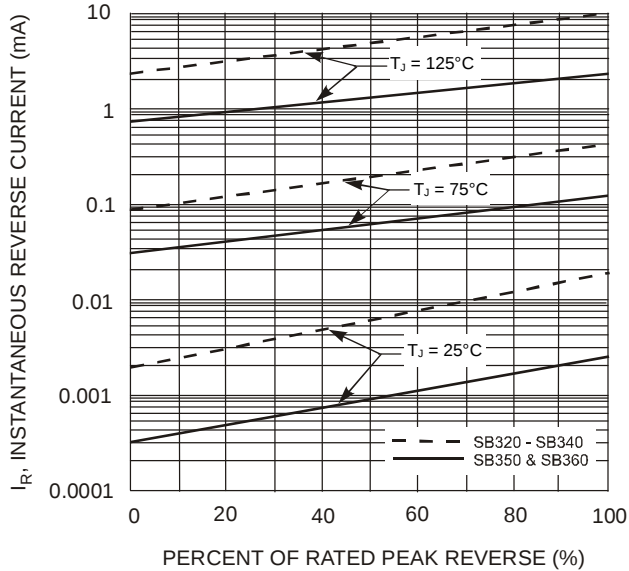
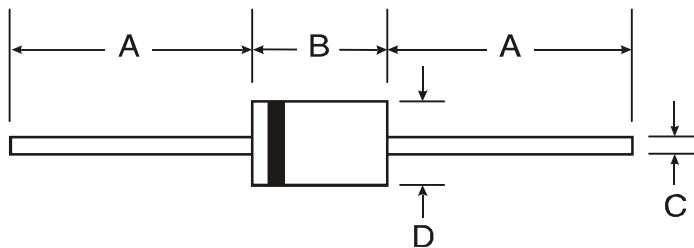


Fig. 5 Typical Reverse Characteristics

Package Outline Dimensions

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

DO-201AD



DO-201AD		
Dim	Min	Max
A	25.40	-
B	7.20	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in mm		

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