

Maximum Ratings and Electrical Characteristics (@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	SB520	SB530	SB540	SB550	SB560	Unit
Peak Repetitive Reverse Voltage	V _{RRM}						
Working Peak Reverse Voltage	V _{RWM}	20	30	40	50	60	V
DC Blocking Voltage	V _R						
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	35	42	V
Average Rectified Output Current (See Figure 1) (Note 4)	I _O	5.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	150					A
Forward Voltage (Note 5)	@ I _F = 5.0A	V _{FM}	0.55		0.67		V
Peak Reverse Current at Rated DC Blocking Voltage (Note 5)	@ T _A = +25°C	I _{RM}	0.5				mA
	@ T _A = +100°C		50		25		
Typical Thermal Resistance Junction to Ambient	(Note 4)	R _{θJA}	25				°C/W
	(Note 6)	R _{θJL}	8				
Operating Temperature Range		T _J	-65 to +125		-65 to +150		°C
Storage Temperature Range		T _{STG}	-65 to +150				

Notes: 4. Measured at ambient temperature at a distance of 9.5mm from case.
5. Short duration test pulse used to minimize self-heating effect.
6. Thermal resistance junction to lead vertical P.C.B. mounted, 0.375" (9.5mm) lead length.

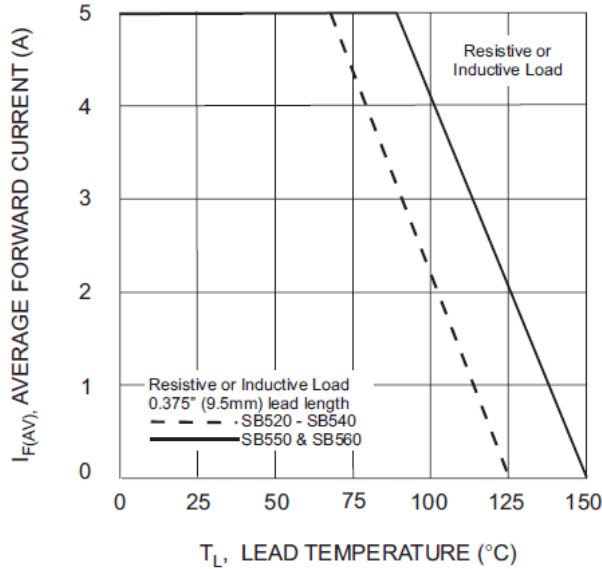


Fig. 1 Forward Current Derating Curve

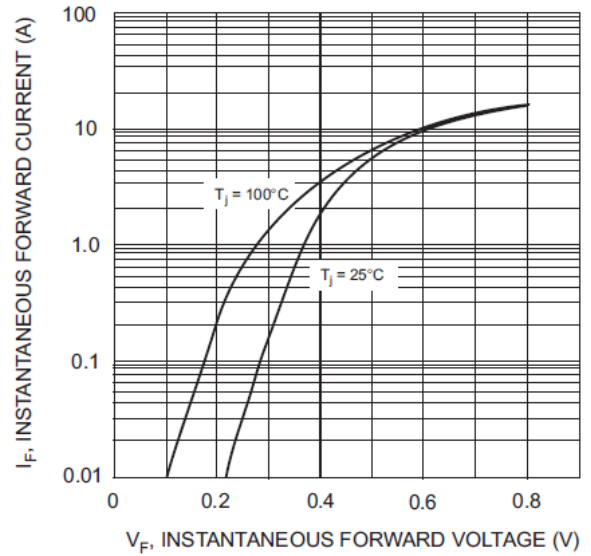


Fig. 2 Typical Forward Characteristics, SB520 - SB540

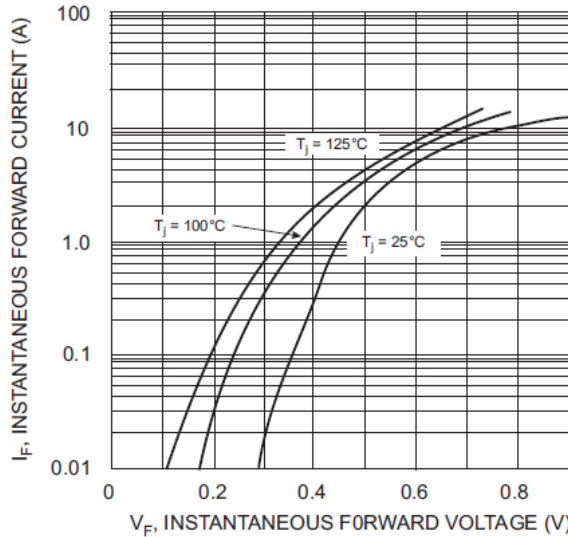


Fig. 3 Typical Forward Characteristics, SB550 & SB560

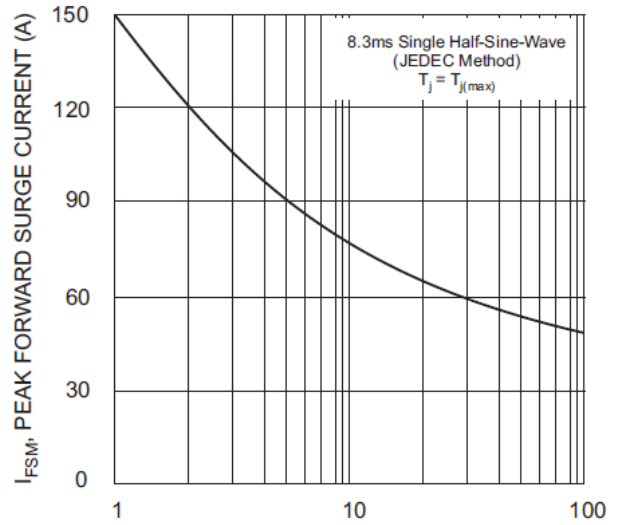


Fig. 4 Max Non-Repetitive Peak Fwd Surge Current

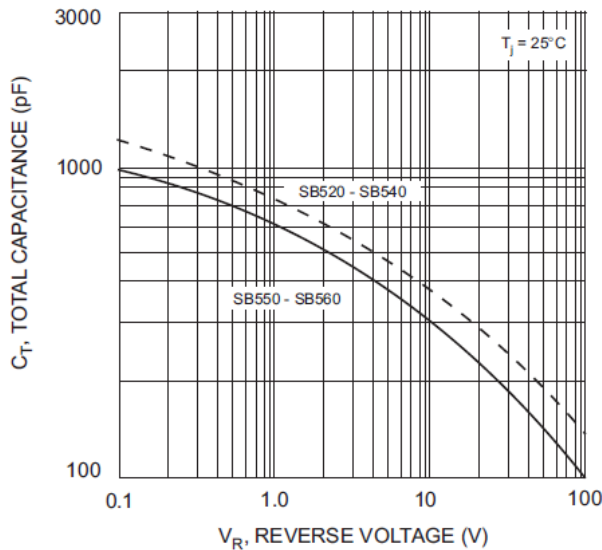


Fig. 5 Typical Total Capacitance

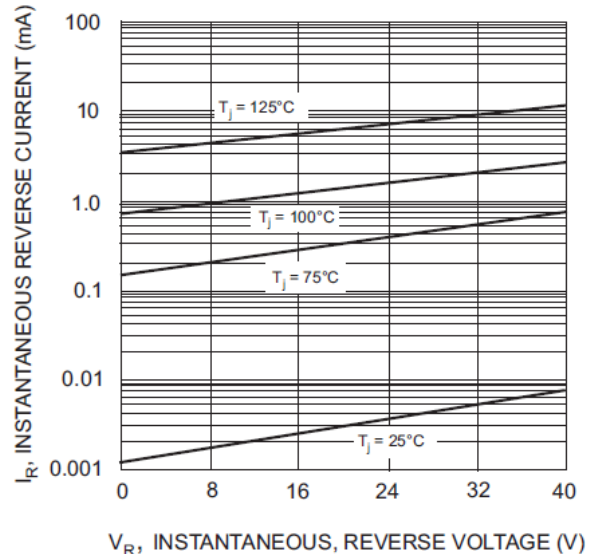


Fig. 6 Typical Reverse Characteristics, SB520 - SB540

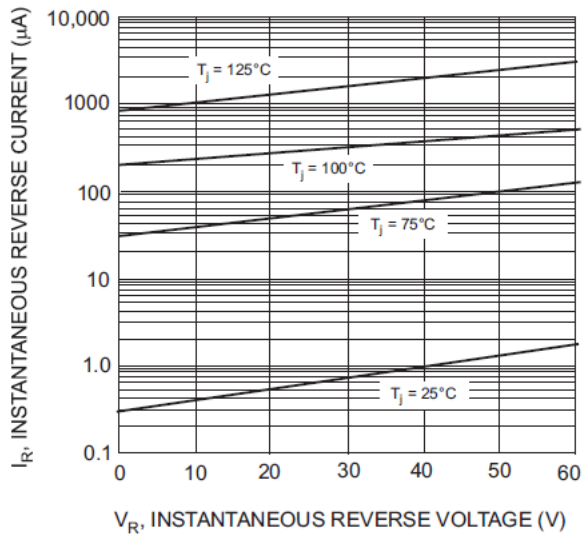
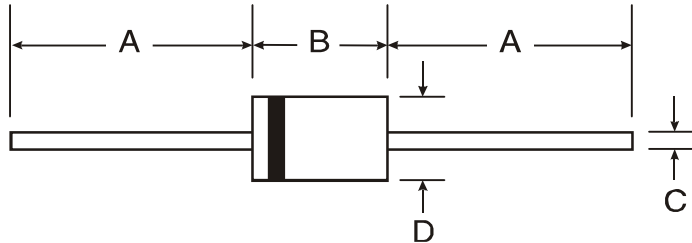


Fig. 7 Typical Reverse Characteristics, SB550 & SB560

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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