

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	SB570	SB580	SB590	SB5100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	70	80	90	100	V
RMS Reverse Voltage		V _{R(RMS)}	49	56	63	70	V
Average Rectified Output Current @ T _L = +80°C		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 @ I _F = 5.0A		V _{FM}	0.80				V
Peak Reverse Current at Rated DC Blocking Voltage	@ T _A = +25°C	I _{RM}	0.5				mA
	@ T _A = +100°C		50				
Typical Junction Capacitance (Note 5)		C _J	400				pF
Typical Thermal Resistance Junction to Ambient		R _{θJA}	10				°C/W
Operating and Storage Temperature Range		T _J , T _{STG}	-65 to +150				°C

Note: 5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

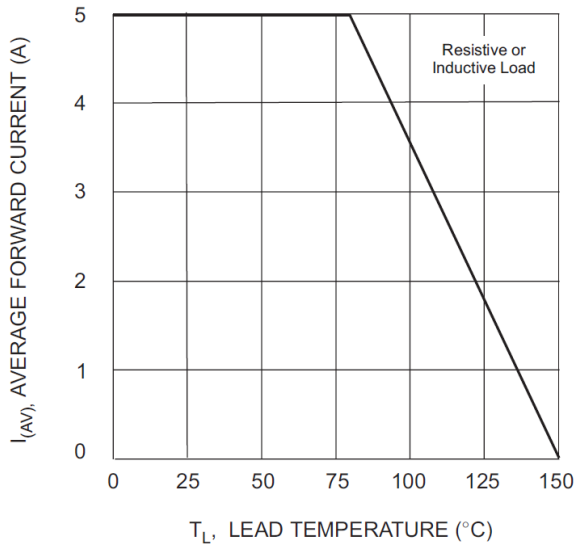


Fig. 1 Forward Current Derating Curve

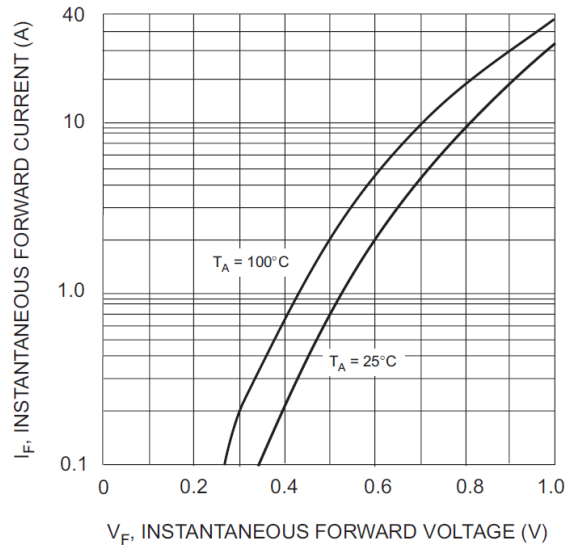


Fig. 2 Typical Forward Characteristics

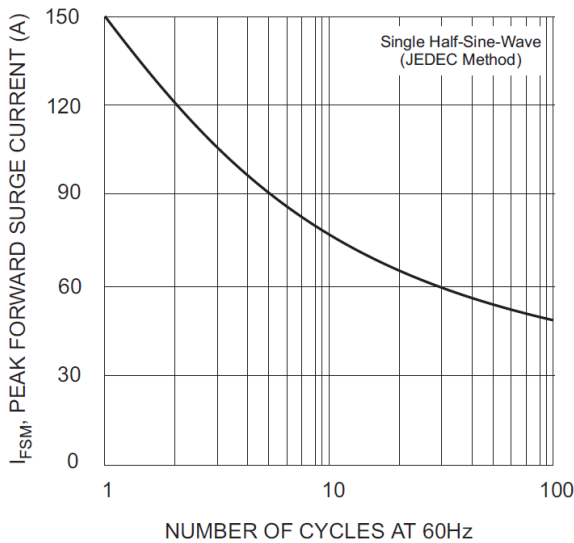


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

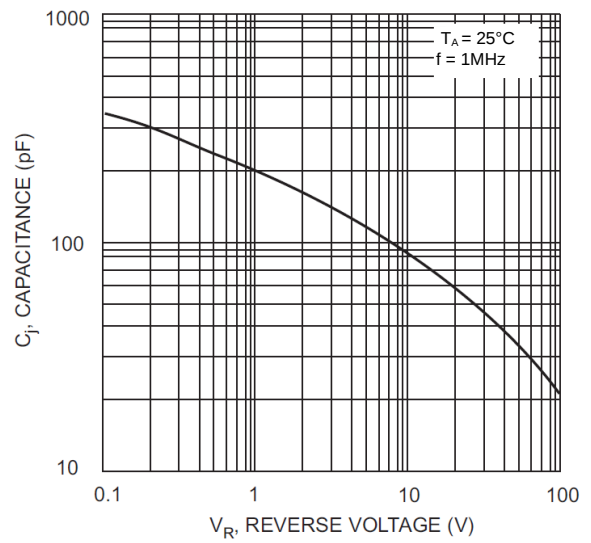


Fig. 4 Typical Junction Capacitance

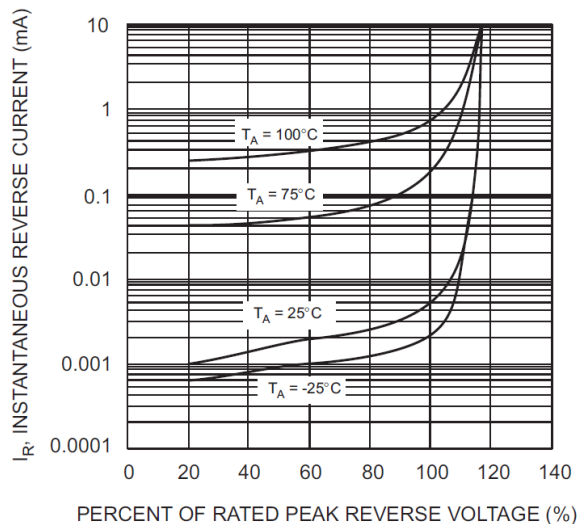
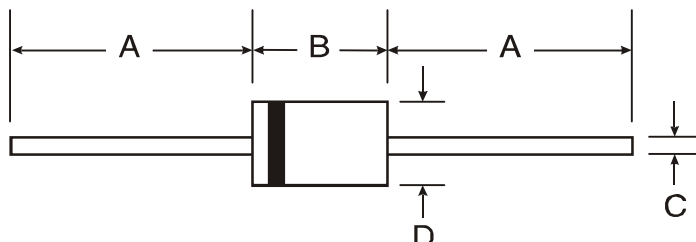


Fig. 5 Typical Reverse Characteristics

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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