

Bridge Rectifier



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

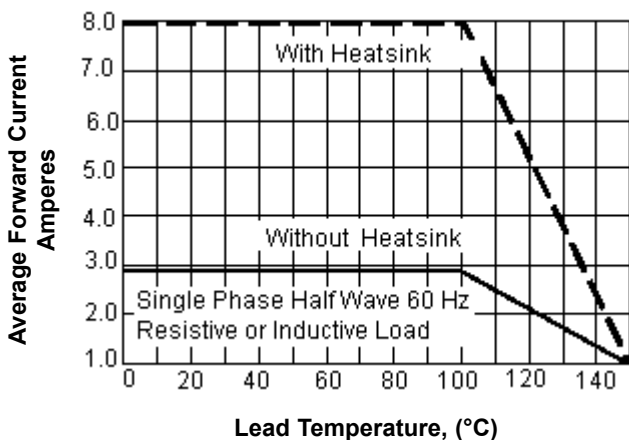
For capacitive load, derate current by 20%.

Characteristics	Symbol	VSIB700	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1,000	V
Maximum RMS Voltage	V_{RMS}	700	
Maximum DC Blocking Voltage	V_{DC}	1,000	
Maximum Average Forward (with heatsink Note 2) Rectified Current at $T_C = 100^\circ\text{C}$ (without heatsink)	$I_{(AV)}$	8 2.9	A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	200	
Maximum Forward Voltage at 4 A dc	V_F	1.1	V
Maximum DC Reverse Current at $T_J = 25^\circ\text{C}$ Rated DC Blocking Voltage at $T_J = 125^\circ\text{C}$	I_R	10 500	μA
I^2t Rating for Fusing ($t < 8.3$ ms)	I^2t	120	A^2s
Typical Junction Capacitance Per Element (Note1)	C_J	55	pF
Typical Thermal Resistance	$R_{\theta JC}$	1.8	$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}		

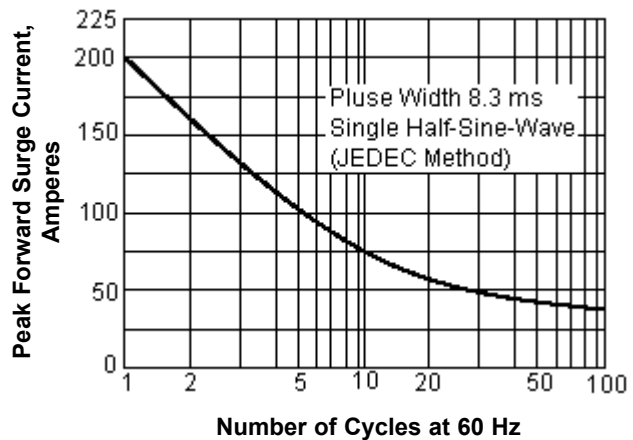
- Notes :** 1. Measured at 1 MHz and applied reverse voltage of 4 V dc.
2. Device mounted on 75 x 75 x 1.6 mm Cu plate heatsink.

Rating and Characteristics Curves

Forward Current Derating Curve



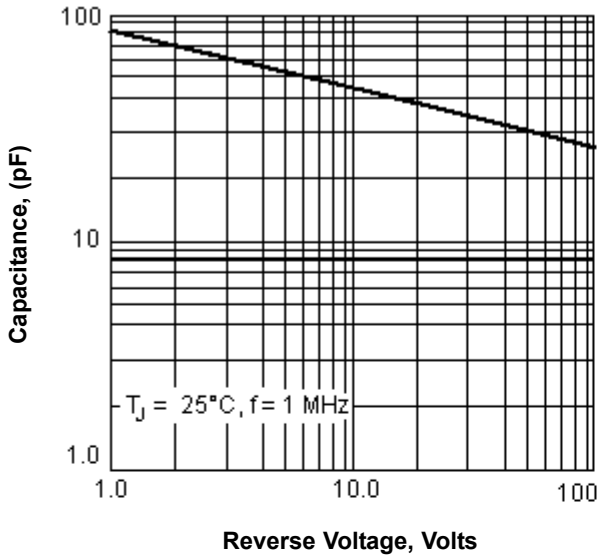
Maximum Non-Repetitive Surge Current



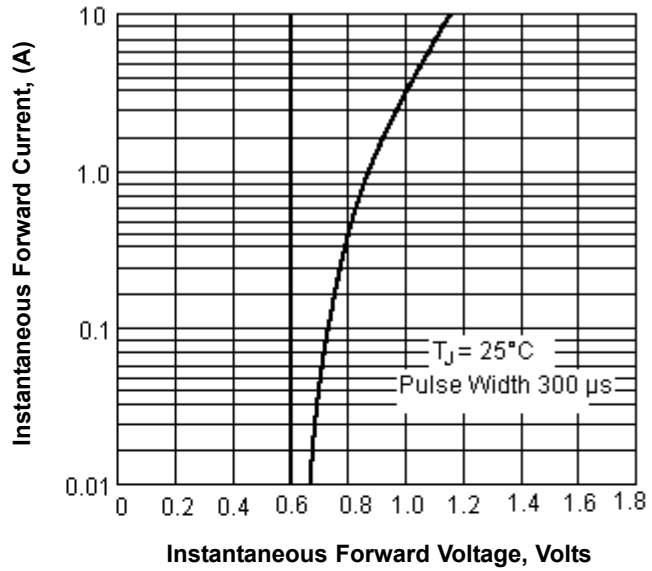
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Rating and Characteristics Curves

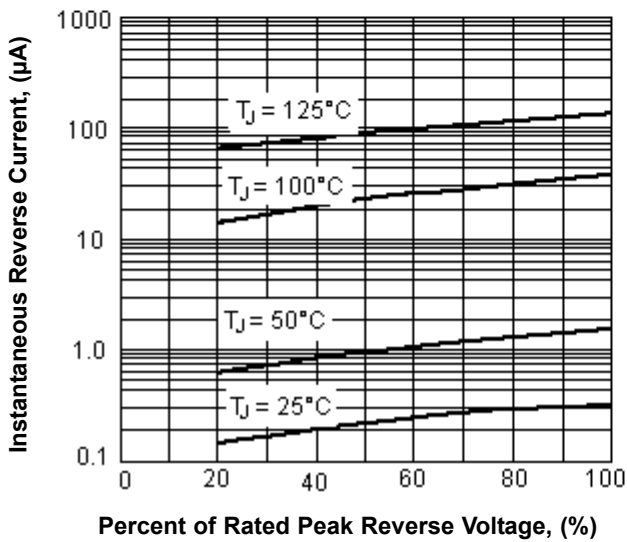
Typical Junction Capacitance



Typical Forward Characteristics



Typical Reverse Characteristics



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