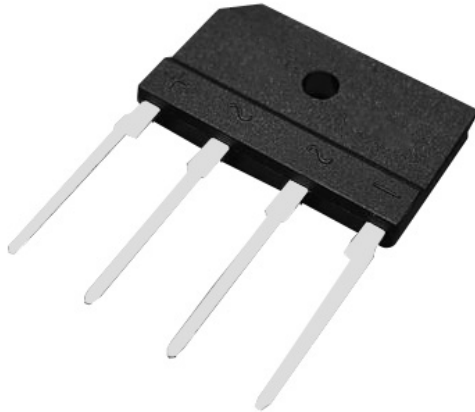
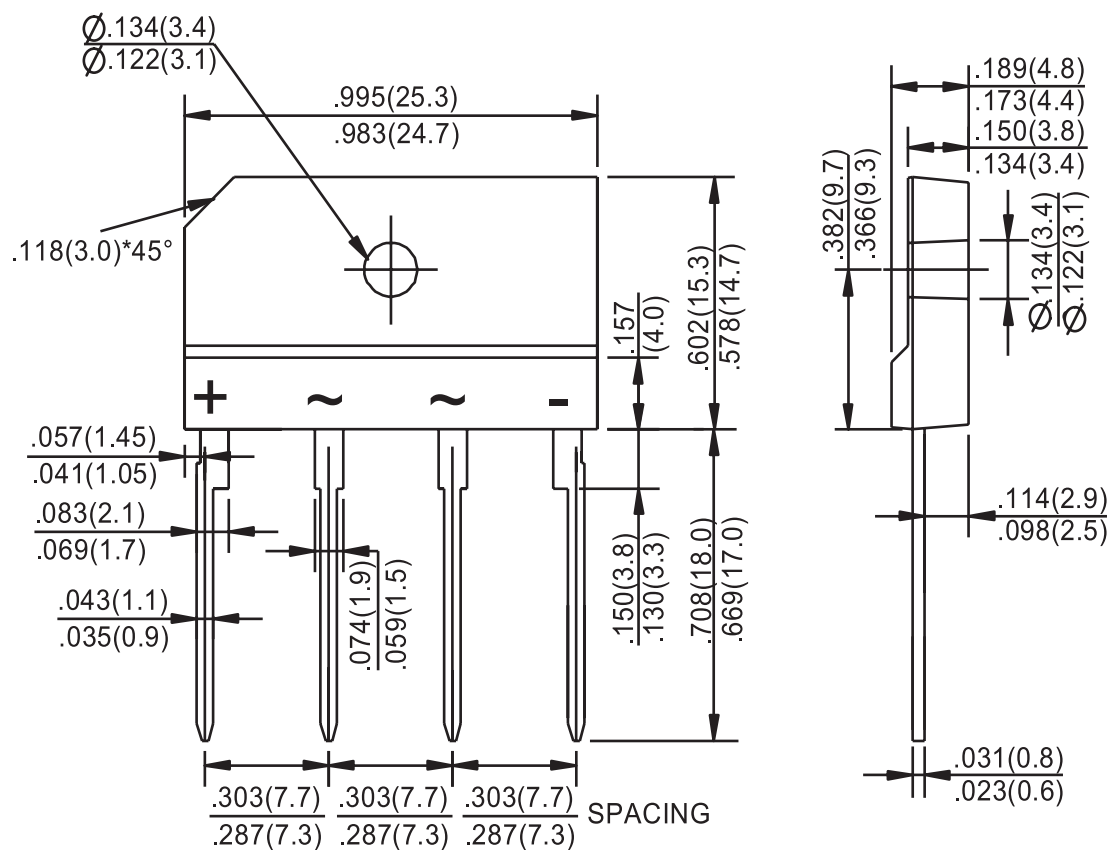


Bridge Rectifier



Features

- Glass passivated
- Ideal for printed circuit board
- Low forward voltage drop, high current capability



Dimensions : Inches (Millimetres)

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.

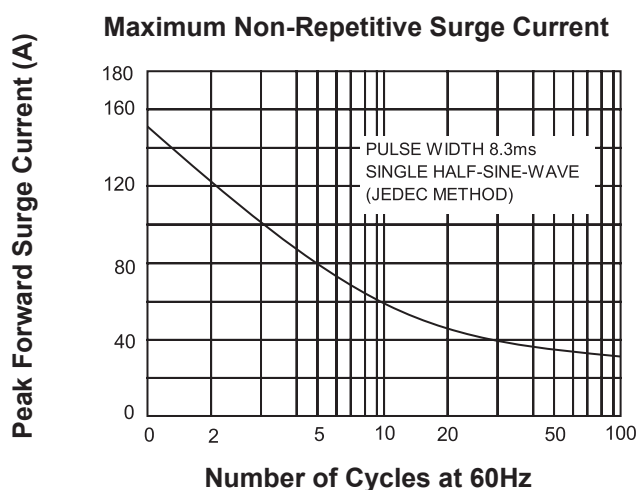
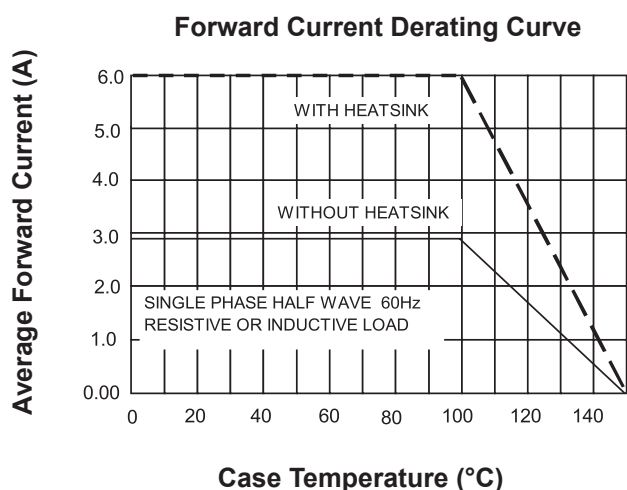
For capacitive load, derate current by 20%.

Characteristics	Symbol	VSIB605	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	
Maximum DC Blocking Voltage	V_{DC}	100	
Maximum Average Forward (with heatsink Note 2) Rectified Current at $T_c = 100^\circ\text{C}$ (without heatsink)	$I_{(AV)}$	6 2.8	A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	150	
Maximum Forward Voltage at 3A DC	V_F	1.1	V
Maximum DC Reverse Current at $T_J = 25^\circ\text{C}$ at 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 (Note 1)	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 1MHz and applied reverse voltage of 4V DC.

2. Device mounted on 75mm × 75mm × 1.6mm Cu plate heatsink.

Rating and Characteristics Curves

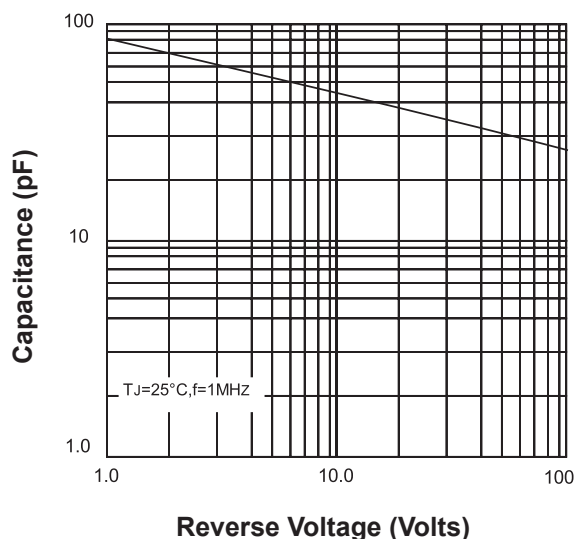


Bridge Rectifier

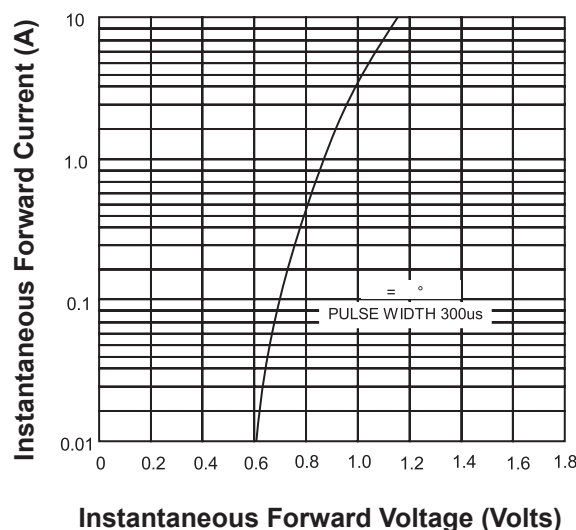


Rating and Characteristics Curves

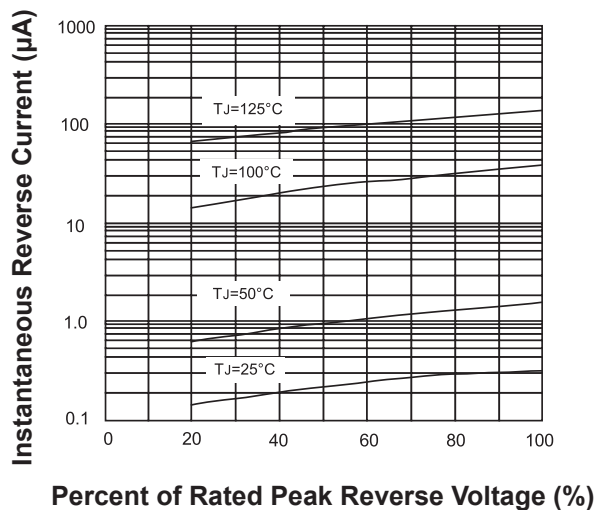
Typical Junction Capacitance



Typical Forward Characteristics



Typical Reverse Characteristics



Part Number Table

Description	Part Number
Bridge Rectifier, 6A, 100V	VSIB610

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