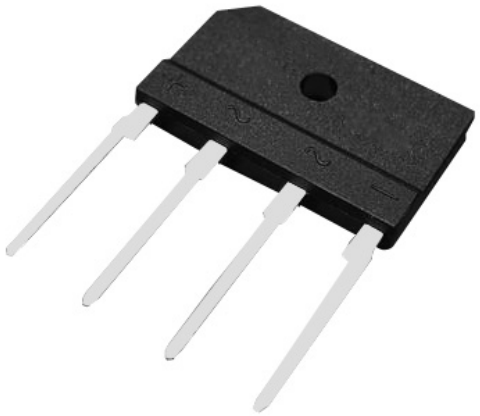
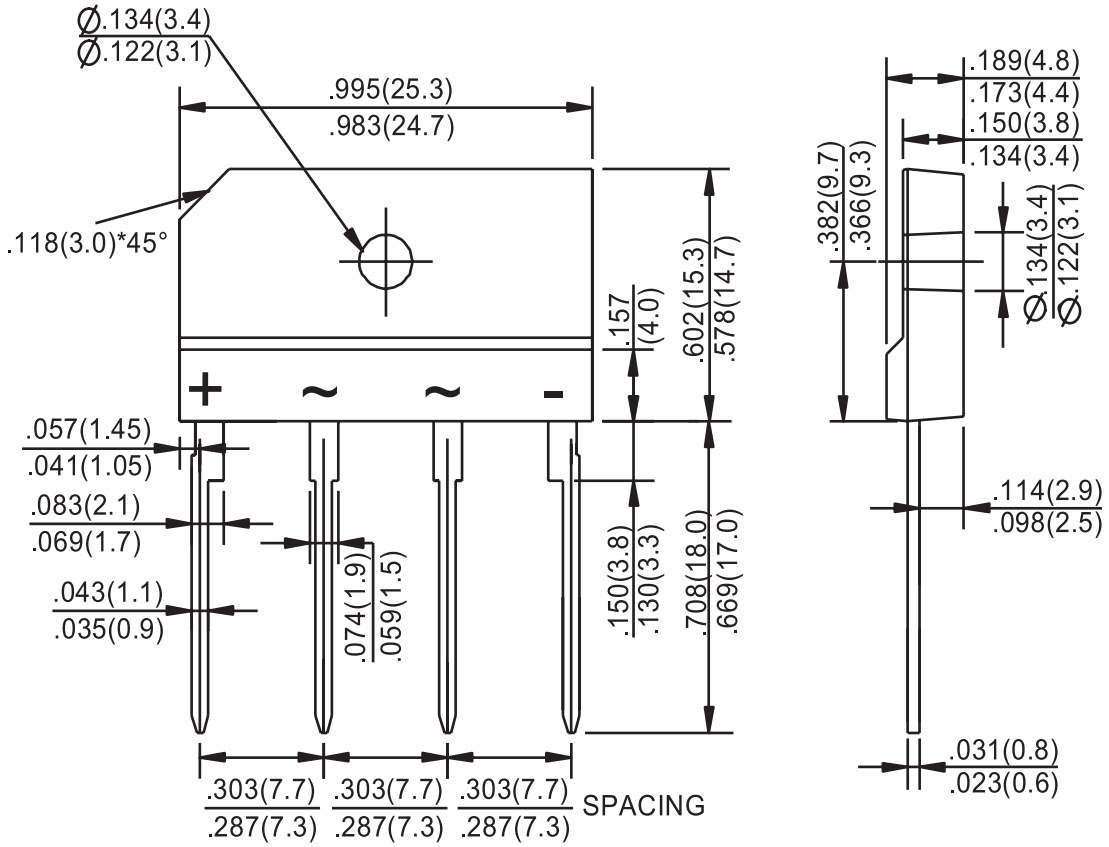
Bridge Rectifier



Features

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



Dimensions : Inches (Millimetres)

Maximum Ratings and Electrical Characteristics

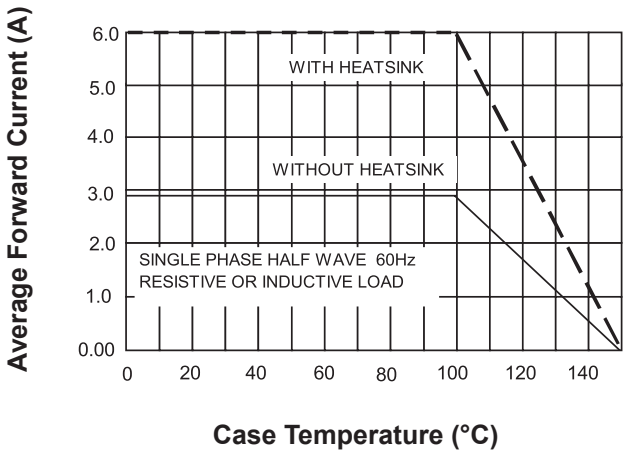
Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

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°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°C at Rated DC Blocking Voltage at T_J = 125°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	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}		

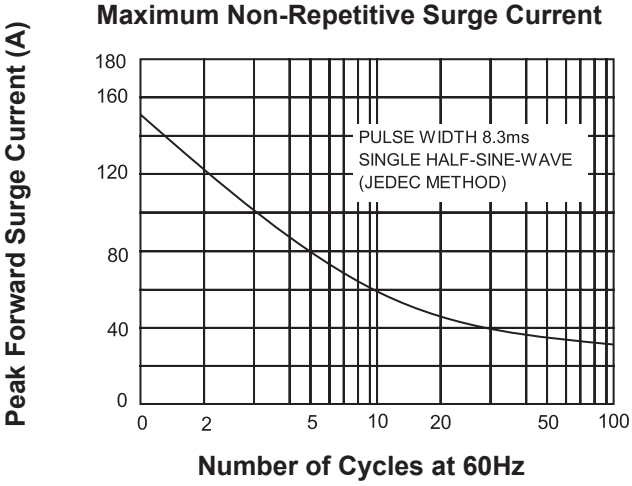
Notes : 1. Measured at 1MHz and applied reverse voltage of 4V DC.
2. Device mounted on 75mm × 75mm × 1.6mm Cu plate heatsink.

Rating and Characteristics Curves

Forward Current Derating Curve



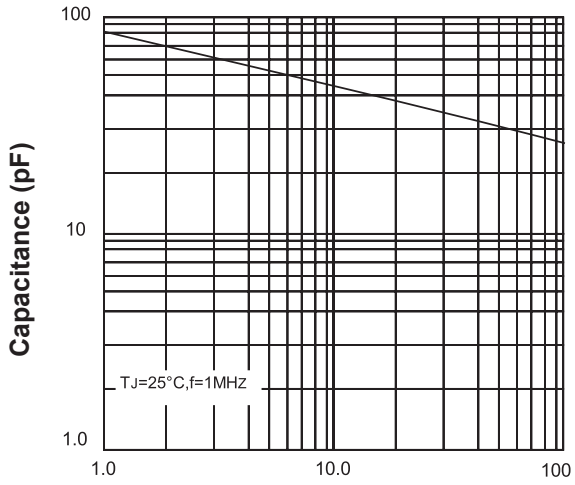
Maximum Non-Repetitive Surge Current



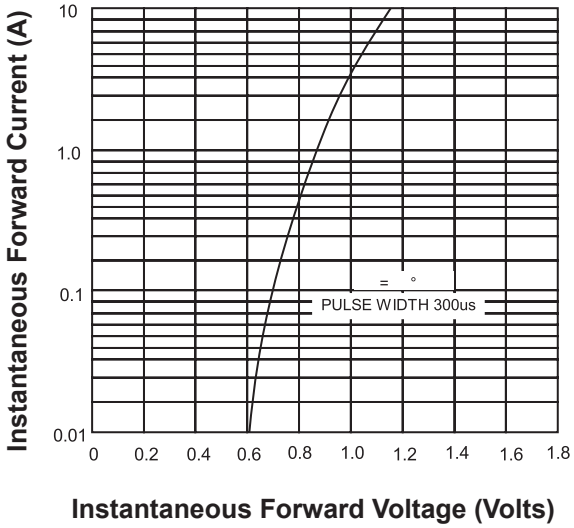
Bridge Rectifier

Rating and Characteristics Curves

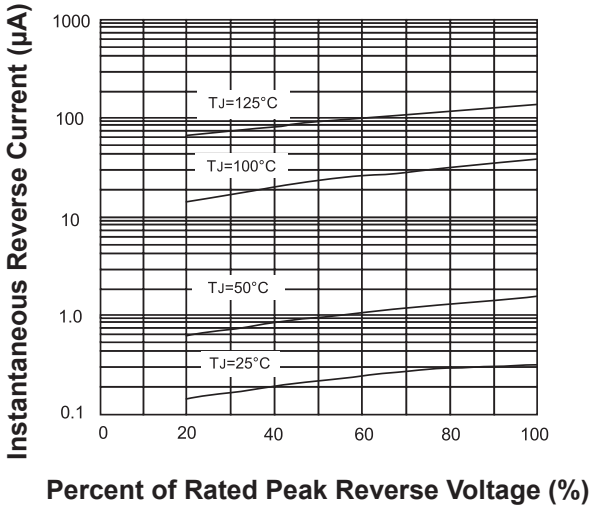
Typical Junction Capacitance



Typical Forward Characteristics



Typical Reverse Characteristics



Part Number Table

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