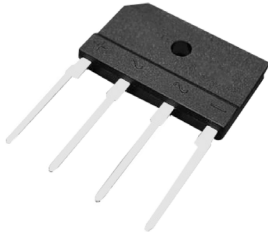


RoHS  
Compliant



## Features

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

## Specifications

Reverse Voltage : 800 Volts  
Forward Current : 6 Amperes

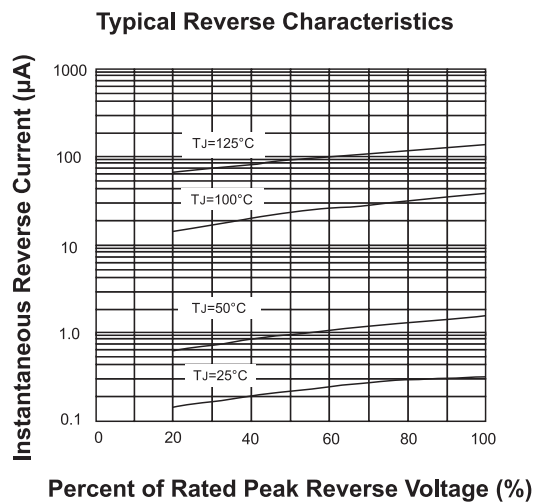
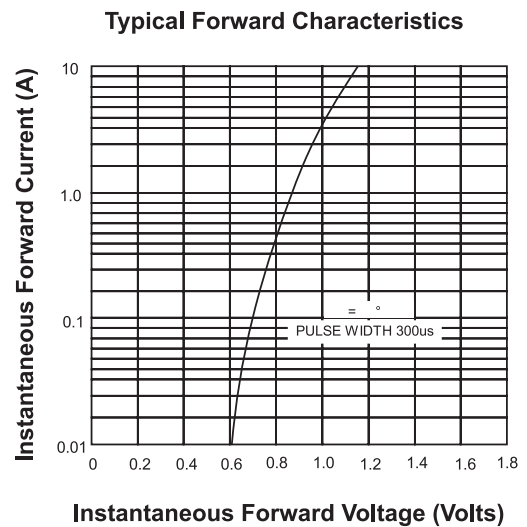
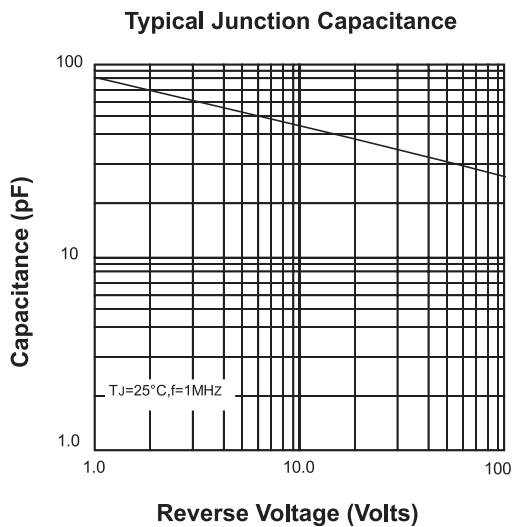
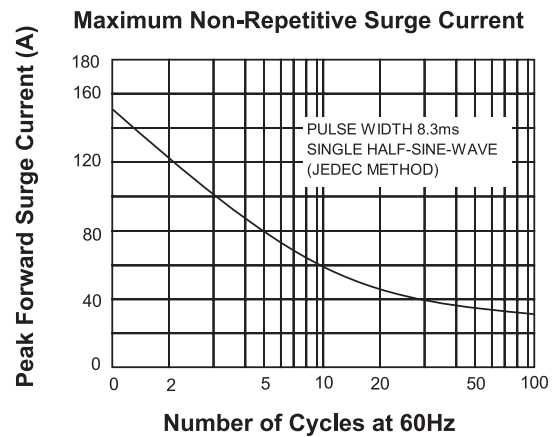
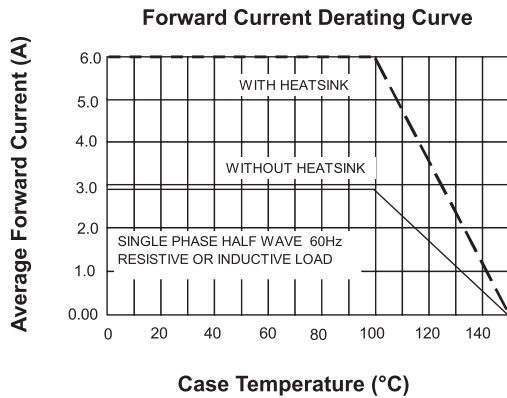
## Maximum Ratings and Electrical Characteristics

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

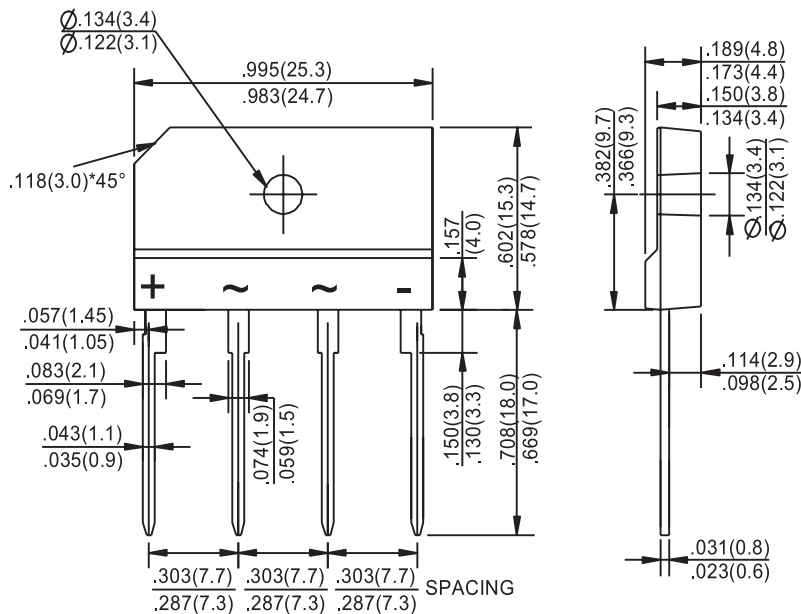
Characteristics	Symbol	Values	Unit
Max. Recurrent Peak Reverse Voltage	$V_{RRM}$	800	V
Max. RMS Voltage	$V_{RMS}$	560	
Max. DC Blocking Voltage	$V_{DC}$	800	
Max. Average Forward (with heatsink Note 2) Rectified Current at $T_c = 100^\circ\text{C}$ (without heatsink)	$I_{(AV)}$	6 2.8	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	$I_{FSM}$	150	
Max. Forward Voltage at 4 A DC	$V_F$	1.1	V
Max. 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	$\mu\text{A}$
$I^2t$ Rating For Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	120	$\text{A}^2\text{s}$
Typical Junction Capacitance per Element (Note 1)	$C_J$	55	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	1.8	$^\circ\text{C} / \text{W}$
Operating Temperature Range	$T_J$	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$		

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

## Rating and Characteristic Curves



## Diagram



Dimensions : Inches (Millimetres)

## Part Number Table

Description	Part Number
Bridge Rectifier, 800V, 6A	VSIB680

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