Bridge Rectifier

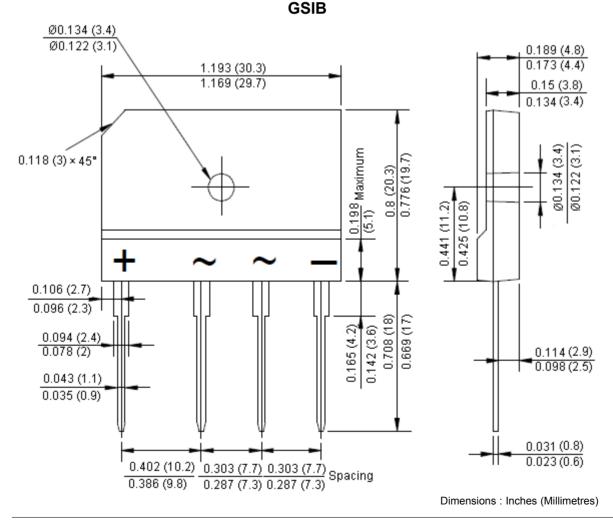




Features:

- Glass passivated.
- Ideal for printed circuit board.
- Low forward voltage drop, high current capability.
- Reliable low cost construction utilizing moulded plastic technique results in inexpensive product.

Reverse Voltage - 50 V Forward Current - 15 Amperes



Bridge Rectifier



Maximum Ratings and Electrical Characteristics

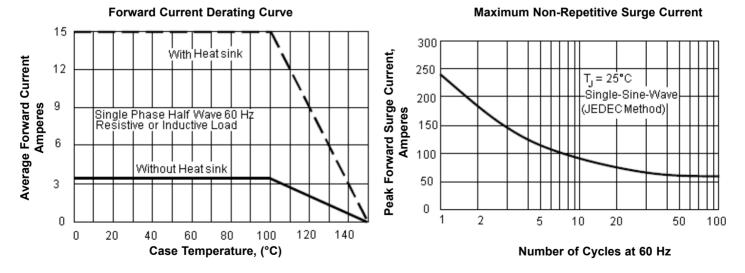
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristics	Symbol	GSIB15005	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	v
Maximum RMS Voltage	V _{RMS}	35	
Maximum DC Blocking Voltage	V _{DC}	50	
Maximum Average Forward (with heatsink Note 2)Rectified Currentat $T_c = 100^{\circ}C$ (without heatsink)	I _(AV)	15 3.2	A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	240	
Maximum Forward Voltage at 7.5 A dc	V _F	1.1	V
Maximum DC Reverse Currentat $T_J = 25^{\circ}C$ at Rated DC Blocking Voltageat $T_J = 125^{\circ}C$	I _R	10 500	μΑ
I ² t Rating for Fusing (t < 8.3 ms)	l ² t	240	A ² s
Typical Junction Capacitance Per Element (Note1)	CJ	60	pF
Typical Thermal Resistance	R _{θJC}	0.8	°C/W
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}		

Notes: 1. Measured at 1 MHz and applied reverse voltage of 4 V dc.

2. Device mounted on 300 × 300 × 1.6 mm Cu plate heatsink.

Rating and Characteristics Curves



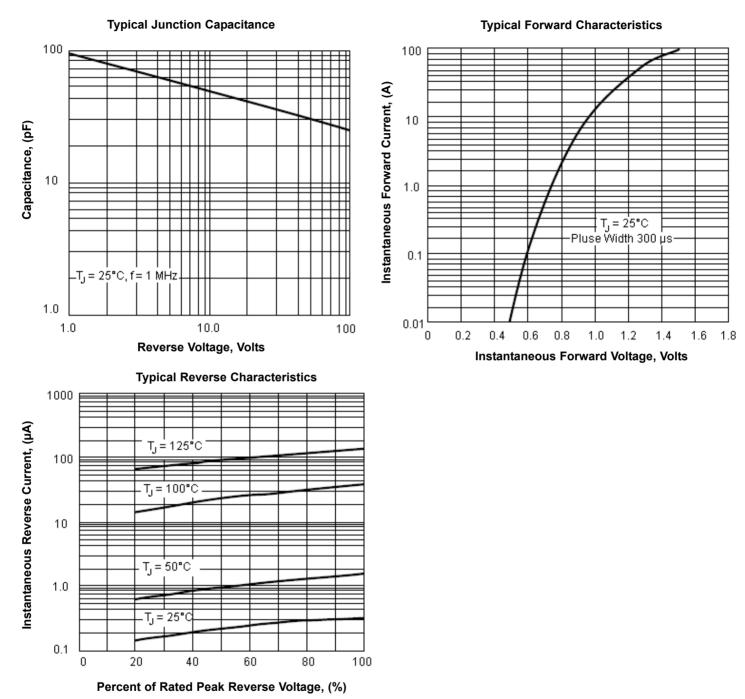
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Bridge Rectifier



Rating and Characteristics Curves



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