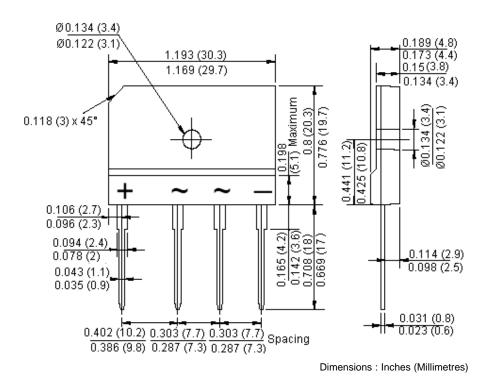


Features:

- Rating to 1,000V PRV.
- Ideal for printed circuit board.
- Low forward voltage drop, high current capability.
- Reliable low cost construction utilizing moulded plastic technique results in inexpensive product.

GSIB



Reverse Voltage : 50 to 1,000 Volts. Forward Current : 15 Amperes.

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Maximum Ratings and Electrical Characteristics

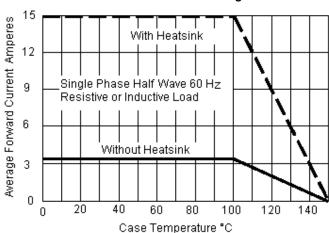
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristics	Symbol	GSIB 15005	GSIB 1501	GSIB 1502	GSIB 1504	GSIB 1506	GSIB 1508	GSIB 1510	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1,000	
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1,000	
Maximum Average Forward (with heatsink Note 2) Rectified Current at $T_{C} = 100$ °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							μA
I ² t Rating For Fusing (t < 8.3 ms)	l ² t	240							A ² s
Typical Junction Capacitance per Element (Note 1)	CJ	60							pF
Typical Thermal Resistance (Note 2)	R _{θJC}	0.8							°C / W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	T _{STG}								

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

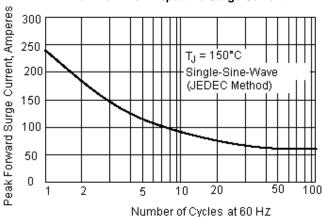
2. Device mounted on 300 \times 300 \times 1.6mm cu plate heatsink.

Rating and Characteristic Curves (GSIB1501 thru GSIB15005)



Forward Current Derating Curve

Maximum Non-Repetitive Surge Current

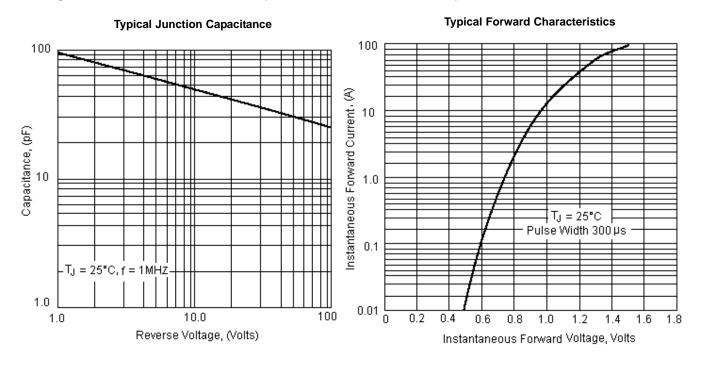




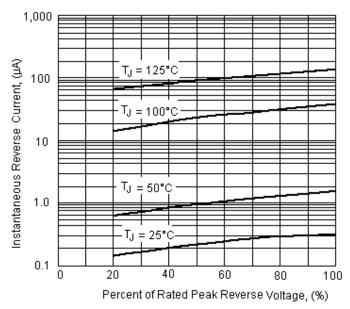
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Rating and Characteristic Curves (GSIB1501 thru GSIB15005)



Typical Reverse Characteristics



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