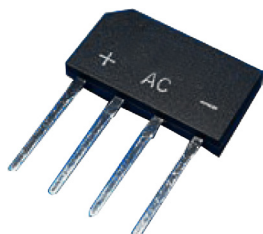


RoHS
Compliant**Features**

- 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

Specifications

Reverse Voltage : 50 to 1,000 Volts

Forward Current : 15 Amperes

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

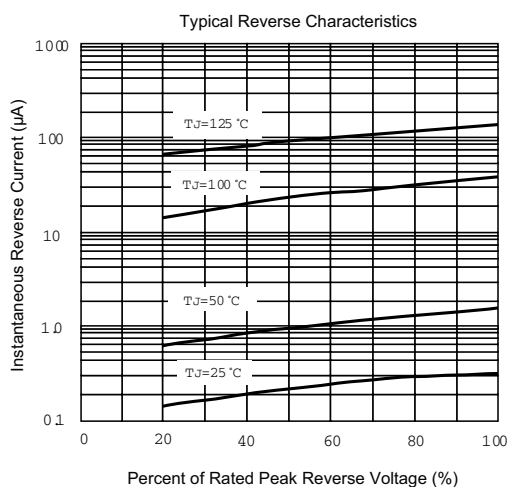
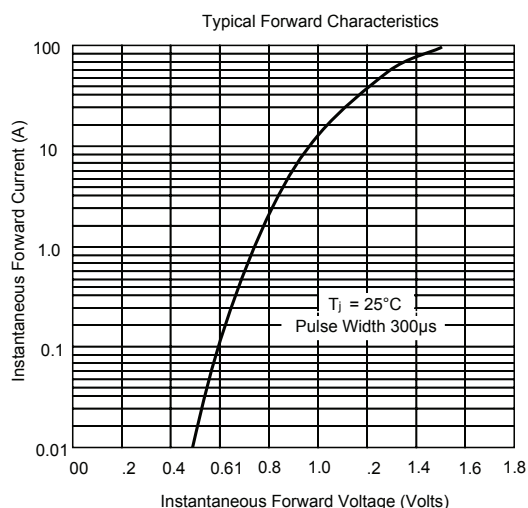
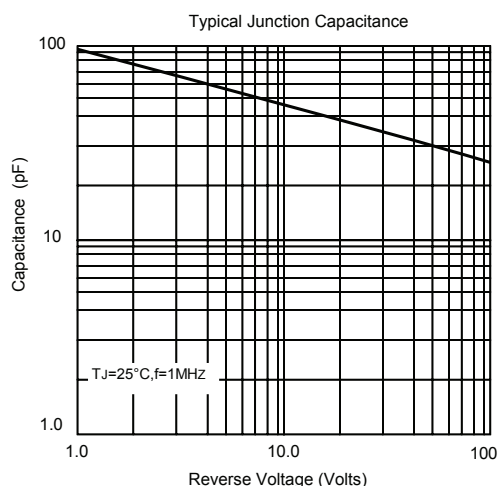
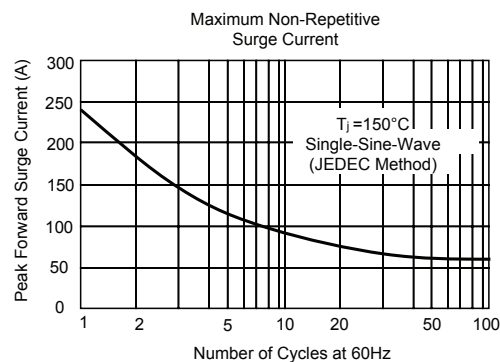
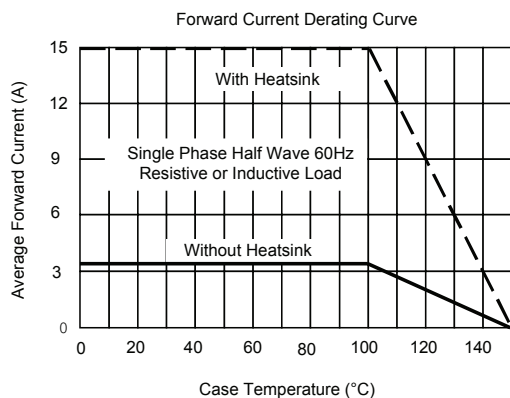
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	GSIB 15005	GSIB 1501	GSIB 1502	GSIB 1504	GSIB 1506	GSIB 1508	GSIB 1510	Unit
Max. Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1,000	V
Max. RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	
Max. DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1,000	
Max. 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 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	240							
Max. Forward Voltage at 7.5 A DC	V _F	1.1							V
Max. DC Reverse Current at T _J = 25°C at Rated DC Blocking Voltage at T _J = 125°C	I _R	10 500							µA
I ² t Rating For Fusing (t < 8.3 ms)	I ² t	240							A ² s
Typical Junction Capacitance per Element (Note 1)	C _J	60							pF
Typical Thermal Resistance (Note 2)	R _{θJC}	0.8							°C / W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}								

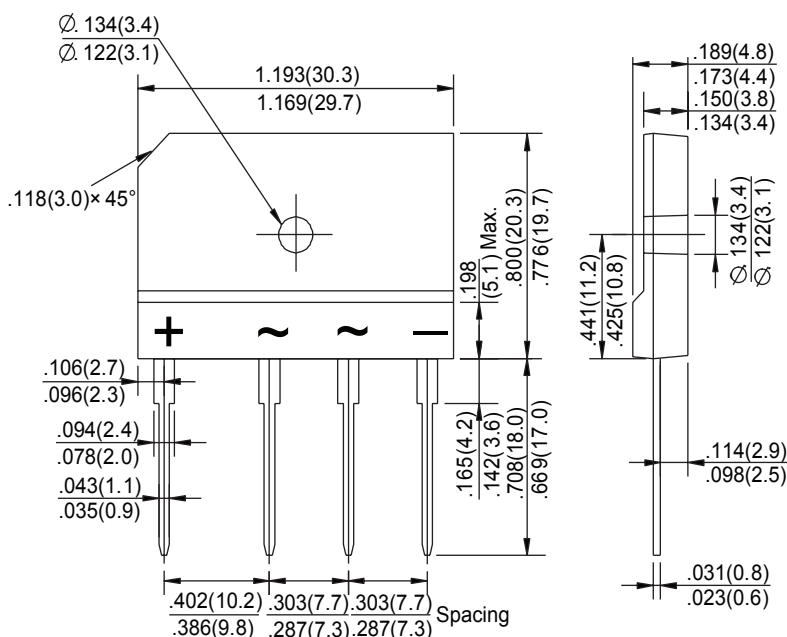
Note: 1. Measured at 1MHz and applied reverse voltage of 4 V DC
2. Device mounted on 300 × 300 × 1.6mm cu plate heatsink

Rating and Characteristic Curves



Diagram

GSIB



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Bridge Rectifier, Single Phase	GSIB1501
	GSIB1502
	GSIB1504
	GSIB1506
	GSIB1508
	GSIB15005

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