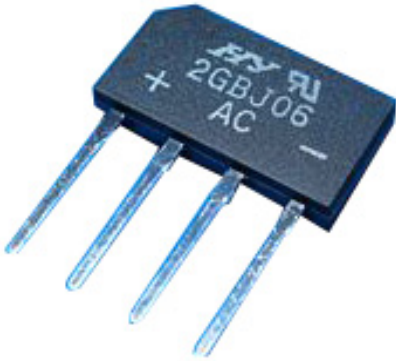


Glass Passivated Bridge Rectifiers

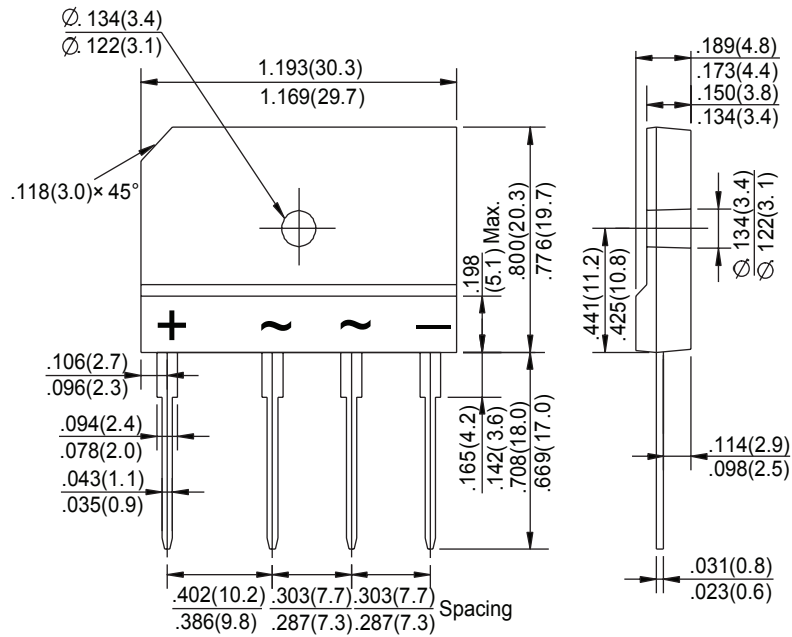
GSIB15005 thru 1510



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.

Dimensions : Inches (Millimetres)



Glass Passivated Bridge Rectifiers

GSIB15005 thru 1510



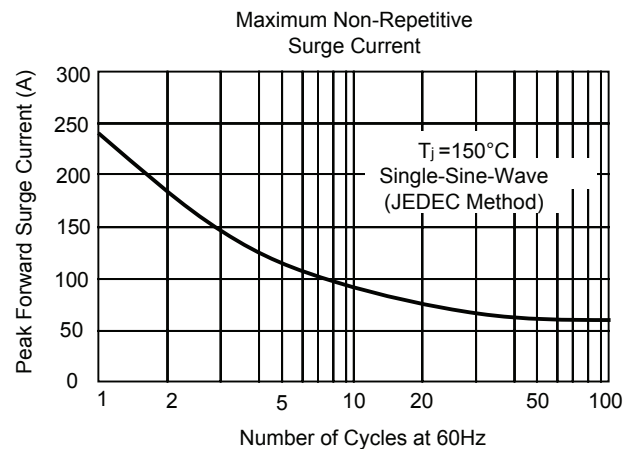
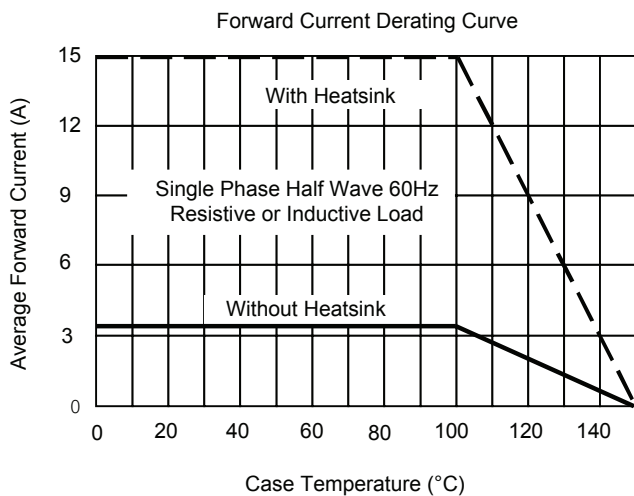
Maximum Ratings and Electrical Characteristics

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	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1,000	
Maximum Average Forward (with heatsink Note 2) Rectified Current at $T_C = 100^\circ\text{C}$ (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 Current at $T_J = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_J = 125^\circ\text{C}$	I_R	10 500							μA
I^2t Rating For Fusing ($t < 8.3$ ms)	I^2t	240							A^2s
Typical Junction Capacitance per Element (Note 1)	C_J	60							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	0.8							$^\circ\text{C} / \text{W}$
Operating Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}								

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

Rating and Characteristic Curves (GSIB15005 thru 1510)

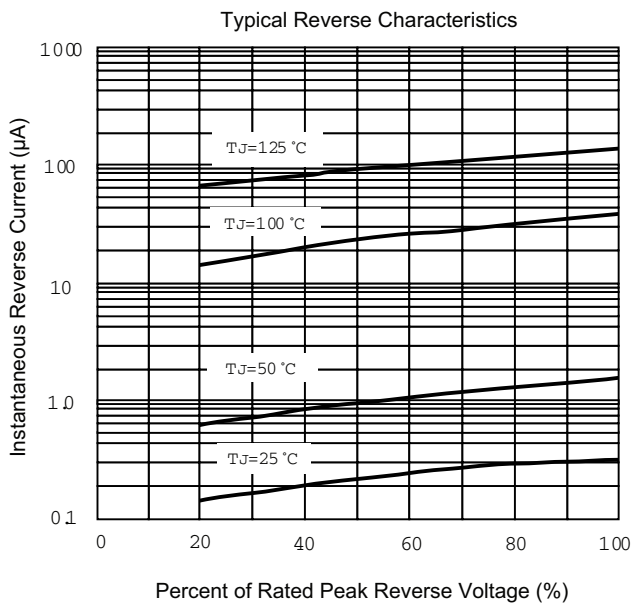
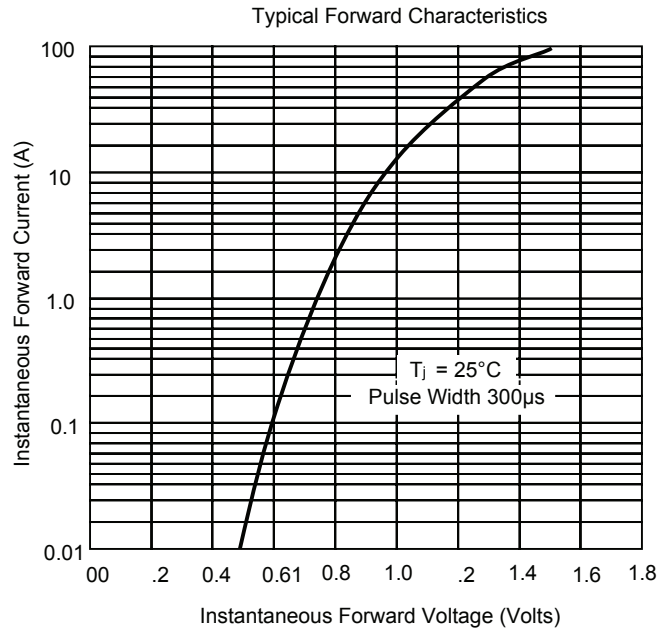
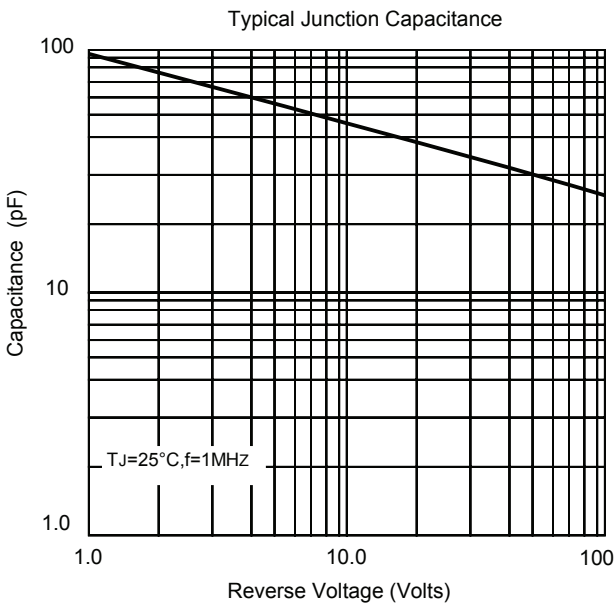


Glass Passivated Bridge Rectifiers

GSIB15005 thru 1510



Rating and Characteristic Curves (GSIB15005 thru 1510)



Part Number Table

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

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