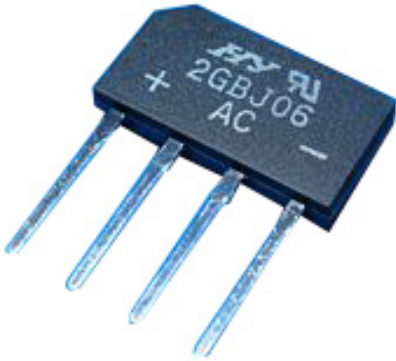


# Glass Passivated Bridge Rectifiers

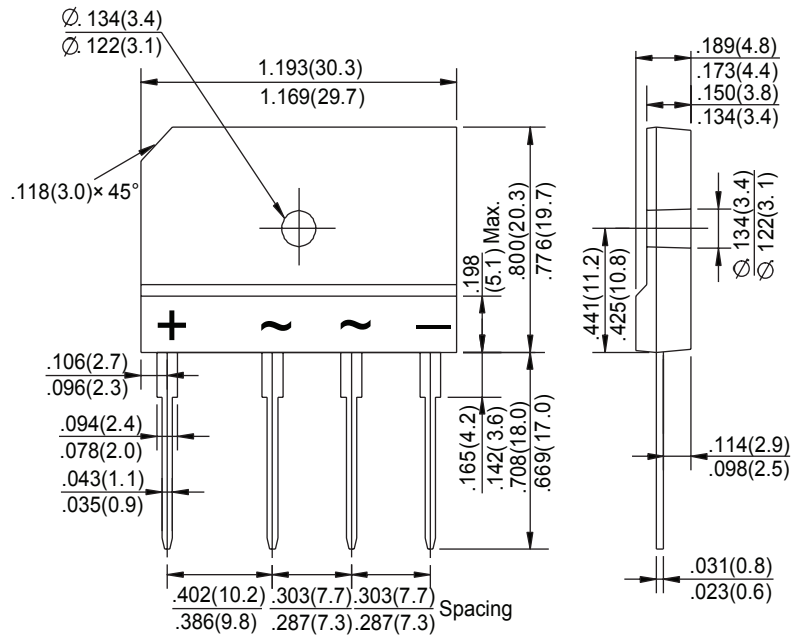
## GSIB15005 thru 1510



### 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



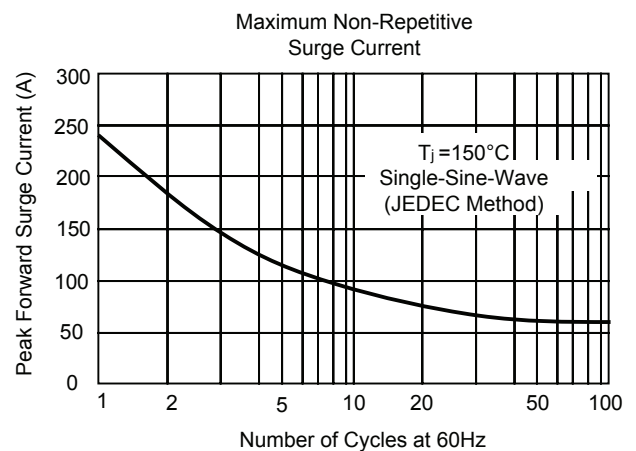
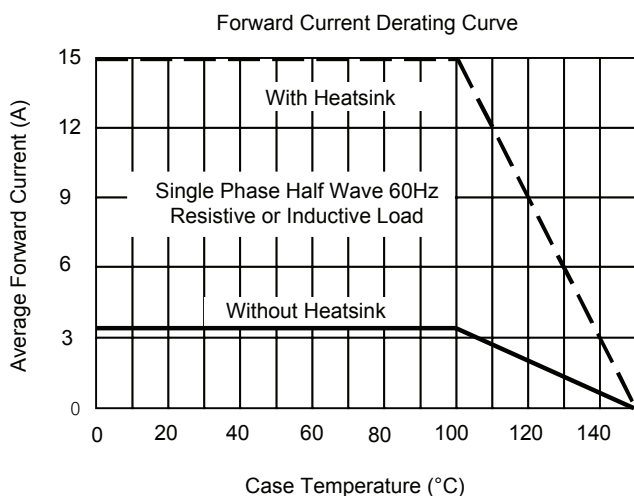
### Maximum Ratings and Electrical Characteristics

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		$\mu\text{A}$
$I^2t$ Rating For Fusing ( $t < 8.3$ ms)	$I^2t$	240								$\text{A}^2\text{s}$
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)

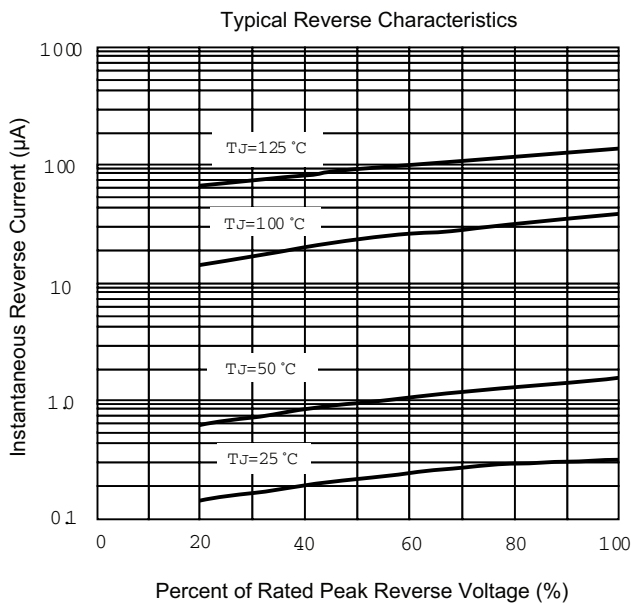
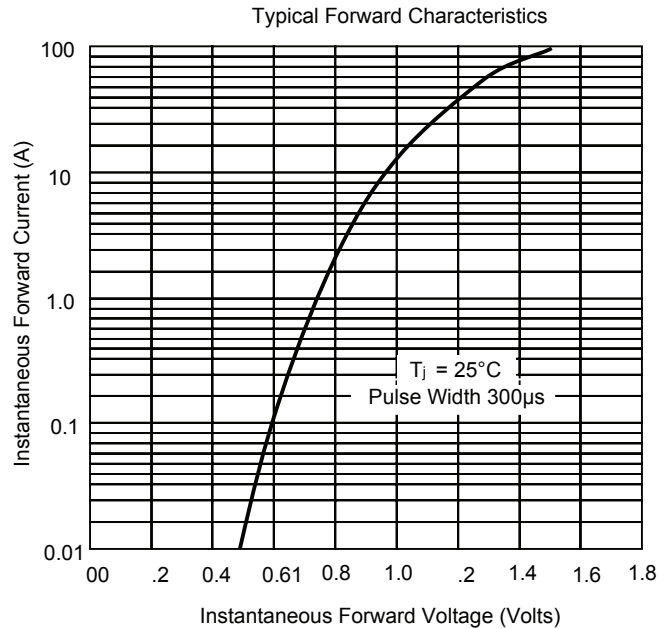
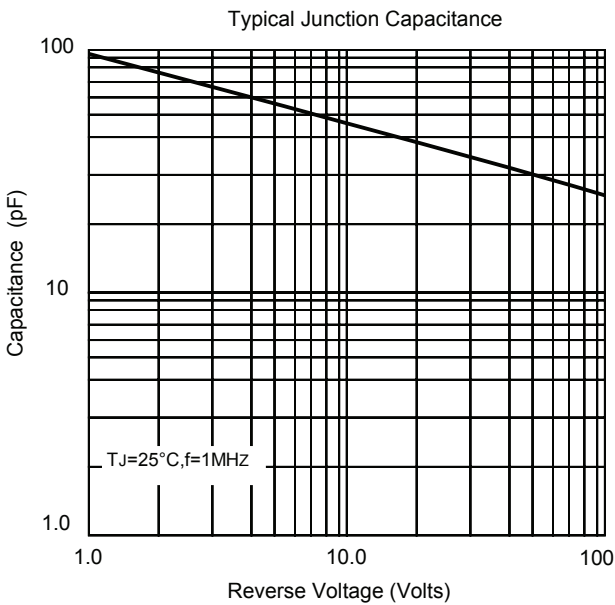


# Glass Passivated Bridge Rectifiers

## 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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