

## Glass Passivated Low VF Bridge Rectifier

**Voltage**

**800 V**

**Current**

**25A**

### Features

- Glass passivated chip junction
- UL recognition file number E526209
- Low forward voltage drop
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard



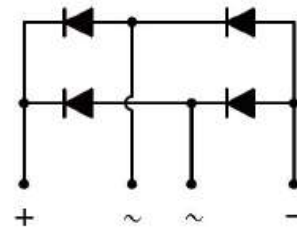
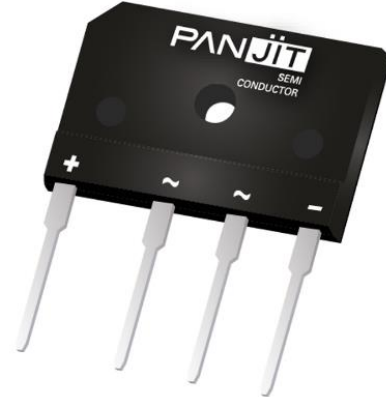
### Mechanical Data

- Case : GBJ-2 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 6.6972 grams

### Application

- Computing Power,
- Server Power/IND/EV
- Air Conditioner out door power board
- High Power/High Efficiency Power
- Home Appliances Power Board
- TV Power

## GBJ-2



Key Parameters	
Parameter	Value
$V_{RRM}$	<b>800V</b>
$I_F(AV)$	<b>25A</b>
$I_{FSM}$	<b>500A</b>
$V_F@125^{\circ}C,(typ)$	<b>0.82V</b>
$I_R$	<b>5uA</b>
Package	<b>GBJ-2</b>

**Maximum Ratings and Thermal Characteristics** ( $T_A = 25\text{ }^{\circ}\text{C}$  unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		$V_{RRM}$	800	V
Maximum RMS Voltage		$V_{RMS}$	560	V
Maximum DC Blocking Voltage		$V_{DC}$	800	V
Maximum Average Forward Current	With heatsink	$I_{F(AV)}$	25	A
	Without heatsink		4	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ $T_A = 25\text{ }^{\circ}\text{C}$	$I_{FSM}$	500	A
	@ $T_A = 125\text{ }^{\circ}\text{C}$		400	
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ $T_A = 25\text{ }^{\circ}\text{C}$	$I_{FSM}$	1000	A
	@ $T_A = 125\text{ }^{\circ}\text{C}$		800	
$I^2 t$ rating for fusing ( $t = 8.3\text{ms}$ )		$I^2 t$	1038	$\text{A}^2\text{S}$
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4\text{ V}$		$C_J$	200	pF
Typical Thermal Resistance (Note 1)		$R_{\theta JA}$	8	$^{\circ}\text{C/W}$
		$R_{\theta JL}$	2	
		$R_{\theta JC}$	2	
Operating junction and storage temperature range		$T_J, T_{STG}$	-55~150	$^{\circ}\text{C}$
Mounting torque @ Recommend torque:5Kg.cm		Tor	8	Kg.cm

**Electrical Characteristics** ( $T_A = 25\text{ }^{\circ}\text{C}$  unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	$V_F$	$I_F = 12.5\text{ A}, T_J = 25\text{ }^{\circ}\text{C}$	-	-	0.94	V
		$I_F = 12.5\text{ A}, T_J = 125\text{ }^{\circ}\text{C}$	-	0.82	-	
Reverse Current	$I_R$	$V_R = 800\text{ V}, T_J = 25\text{ }^{\circ}\text{C}$	-	-	5	$\mu\text{A}$
		$V_R = 800\text{ V}, T_J = 125\text{ }^{\circ}\text{C}$	-	-	100	

NOTES :

1. Device mounted on 10 cm \* 9.4 cm \* 2.6 cm Fin type heat sink.

TYPICAL CHARACTERISTIC CURVES

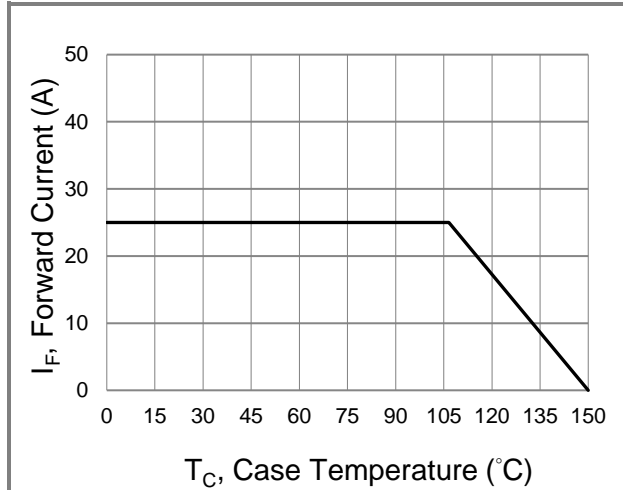


Fig.1 Forward Current Derating Curve

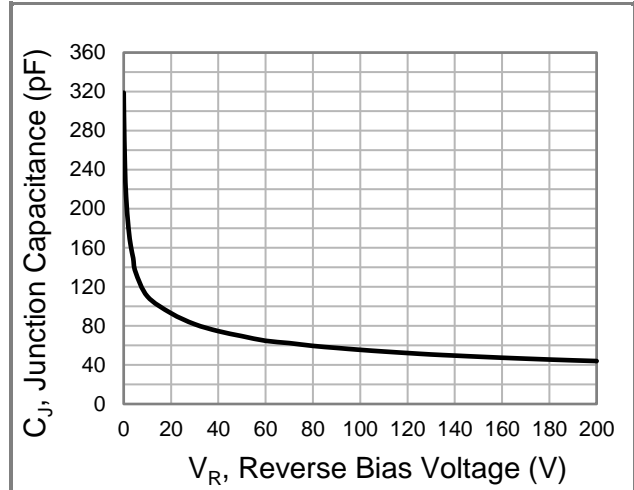


Fig.2 Typical Junction Capacitance

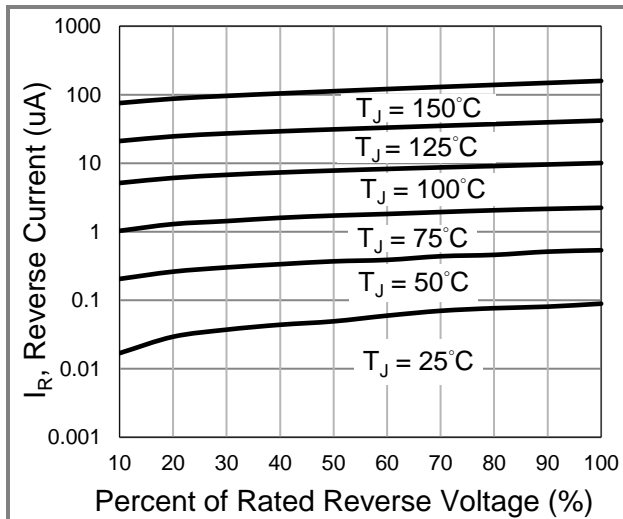


Fig.3 Typical Reverse Characteristics

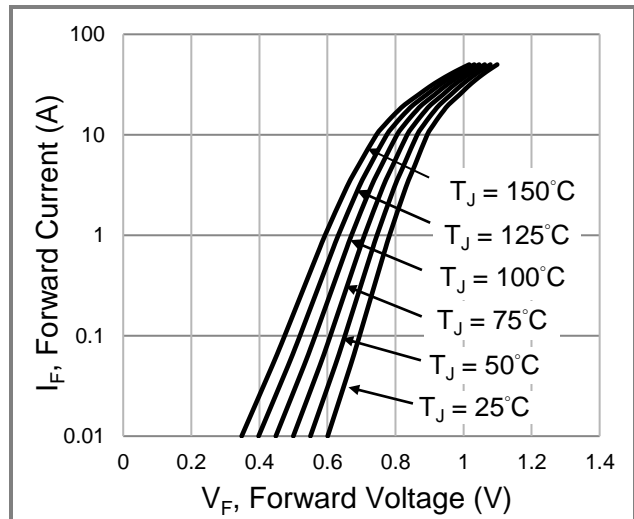
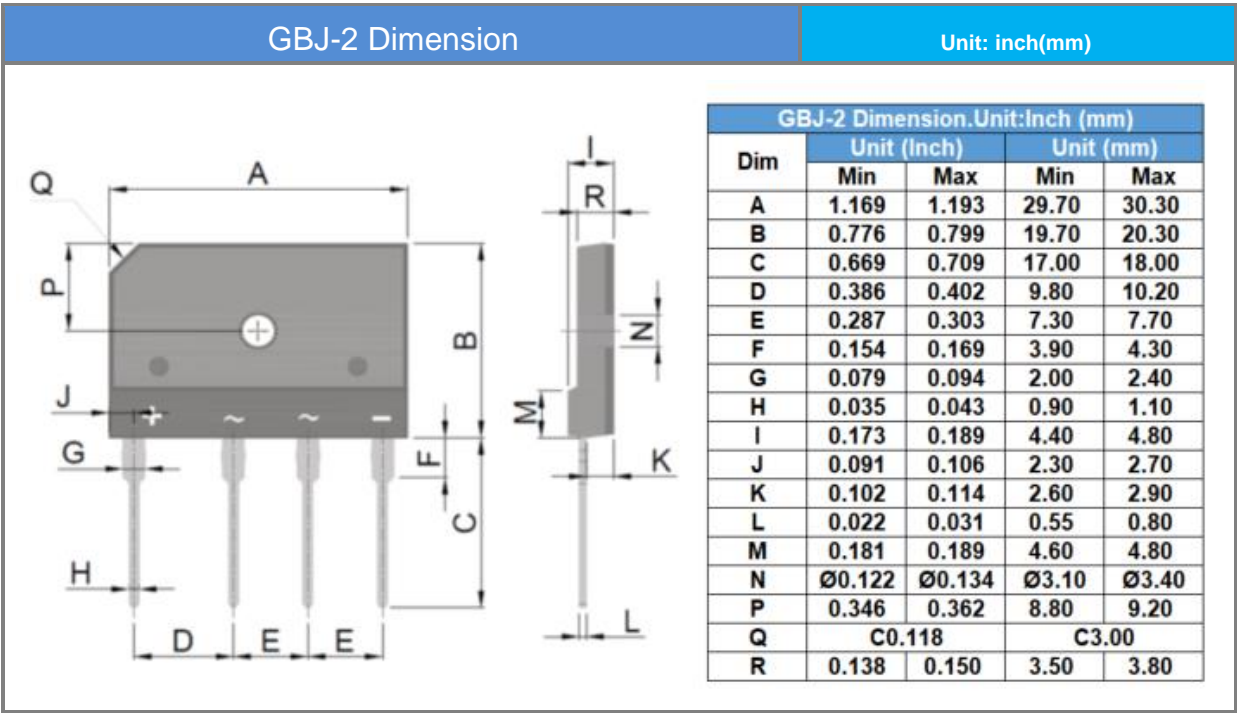


Fig.4 Typical Forward Characteristics

Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GBJ2508LV	GBJ-2	15 pcs / tube	GBJ2508LV

Packaging Information



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