

## **Glass Passivated Bridge Rectifier**



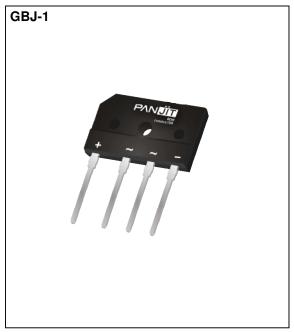
1000 V

Current

15A

#### **Features**

- UL recognition file number E228882
- Ideal for printed circuit boards
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard



### **Mechanical Data**

- Case : GBJ-1 Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.2395 ounces, 6.79 grams

## Application

- Desktop/ Workstation 80+ Silver & Gold Standard
- Server Power Supply 90+ Platinum & Titanium Standard
- Home Appliances Air Con
- Telecom Power Supply Networking station, data center SMPS
- Industrial Power Supply Street Lighting, Synergy Panels



# Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		VRRM	1000	V
Maximum RMS Voltage		V <sub>RMS</sub>	700	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	1000	V
Maximum Average Forward Current		IF(AV)	15	А
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T <sub>A</sub> = 25 °C @ T <sub>A</sub> = 125 °C	IFSM	200 160	А
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T <sub>A</sub> = 25 °C @ T <sub>A</sub> = 125 °C	IFSM	400 320	А
$I^2$ t rating for fusing (t = 8.3ms)	I²t	166	A <sup>2</sup> S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$		CJ	66	pF
Typical Thermal Resistance (Note 2)		Rejc	2.3	°C/W
Operating Junction Temperature Range		TJ	-55~150	٥C
Storage Temperature Range		Tstg	-55~150	٥C

## Electrical Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	I <sub>F</sub> = 7.5 A, T <sub>J</sub> = 25 °C	-	-	1.0	V	
	IR	$V_R = 1000 V, T_J = 25 \circ C$	-	-	5	uA	
Reverse Current		V <sub>R</sub> = 1000 V,T <sub>J</sub> = 125 °C	-	-	500		

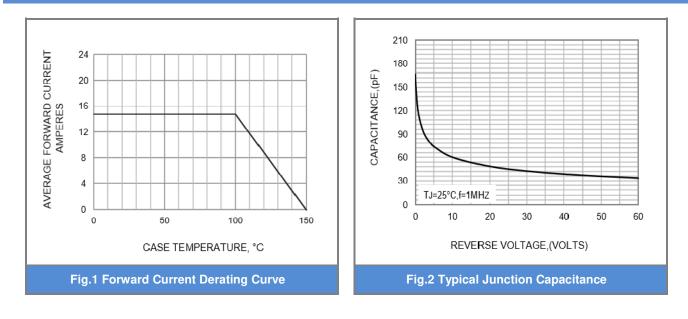
NOTES :

1. Mounted on a FR4 PCB standard pad

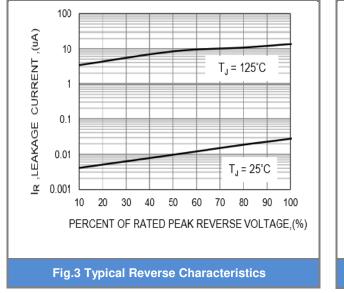
2. Device mounted on 150mm\*150mm\*1.6mm Cu Plate Heatsink.

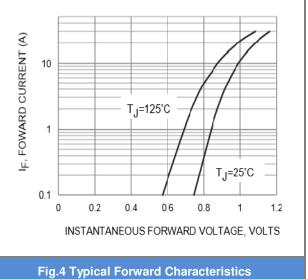










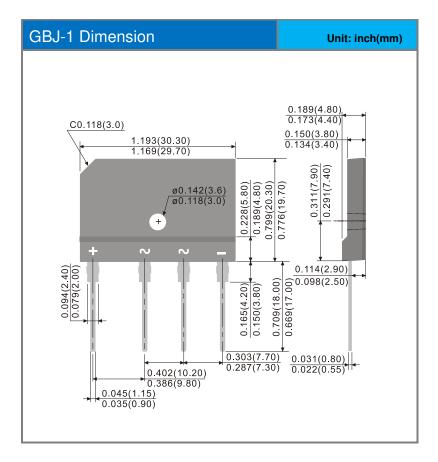




### Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking
GBJ15M_B0_00101	GBJ-1	200 pcs / Box	GBJ15M

### **Packaging Information**





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