

## **Glass Passivated Bridge Rectifier**

Voltage 1000 V Current 8A

#### **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: GBU-1 Package

• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.134 ounces, 3.8 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





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

PARAMETER		SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		$V_{RRM}$	1000	V
Maximum RMS Voltage		$V_{RMS}$	700	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	1000	V
Maximum Average Forward Current		I <sub>F(AV)</sub>	8	Α
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	Ігѕм	180 144	Α
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	I <sub>FSM</sub>	360 288	Α
$I^2$ t rating for fusing (t = 8.3ms)		I²t	134.4	A <sup>2</sup> S
Typical Junction Capacitance  Measured at 1 MHZ And Applied $V_R = 4 \text{ V}$		Сл	72	pF
Typical Thermal Resistance(Note 2)		Rejc	1.6	°C/W
Operating Junction Temperature Range		TJ	-55~150	°C
Storage Temperature Range		T <sub>STG</sub>	-55~150	°C

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 4 A, T <sub>J</sub> = 25 °C	ı	ı	1.05	٧
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 1000 V, T <sub>J</sub> = 25 °C	C		5	
		V <sub>R</sub> = 1000 V,T <sub>J</sub> = 125 °C	-	-	500	uA

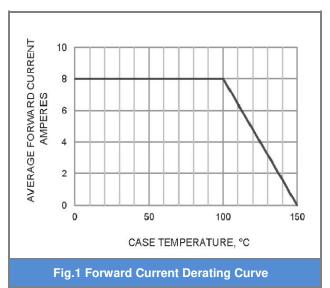
#### NOTES:

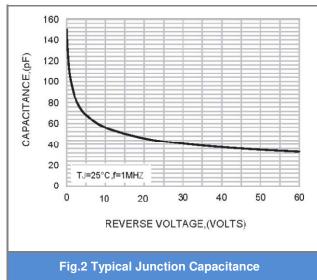
- 1. Mounted on a FR4 PCB standard pad
- 2. Device mounted on 150 mm \* 150 mm \* 1.6 mm Cu Plate heatsink.

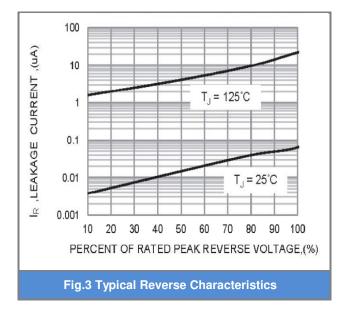
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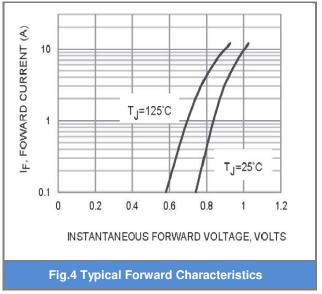


#### **TYPICAL CHARACTERISTIC CURVES**







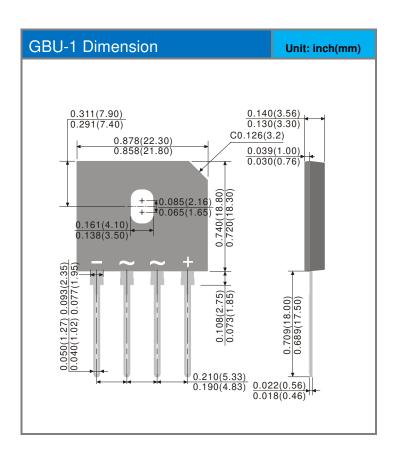




### Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	
GBU8MP_B0_00101	GBU-1	250 pcs / Box	GBU8MP	

### **Packaging Information**





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