

Glass Passivated Bridge Rectifier

Voltage 1000 V Current 6A

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: 0.138 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 ($T_A = 25$ °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 _{DC}	1000	V
Maximum Average Forward Current		I _{F(AV)}	6	Α
Peak Forward Surge Current: 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C @ T _A = 125 °C	IFSM	175 140	А
Peak Forward Surge Current: 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C @ T _A = 125 °C	IFSM	350 280	А
I^2 t rating for fusing (t = 8.3ms)		I²t	127	A ² 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 _{STG}	-55~150	°C

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	I _F = 3 A, T _J = 25 °C	ı	ı	1.05	V
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	-	-	5	
		V _R = 1000 V,T _J = 125 °C	-	-	500	uA

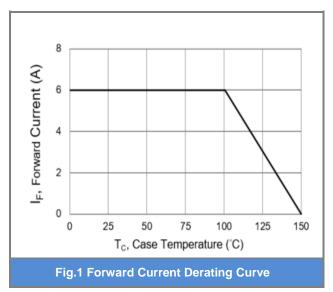
NOTES:

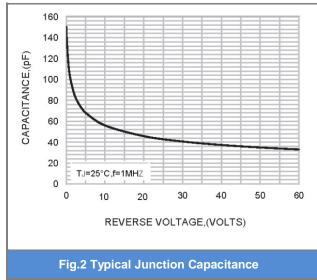
- 1. Mounted on a FR4 PCB standard pad
- 2. Device mounted on 150 mm * 150 mm * 1.6 mm Cu Plate heatsink.

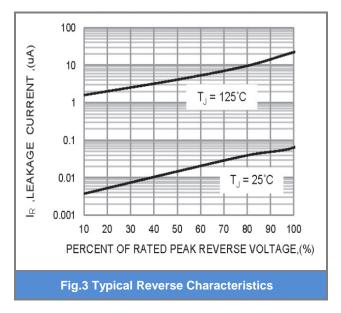
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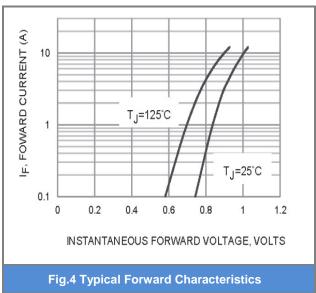


TYPICAL CHARACTERISTIC CURVES







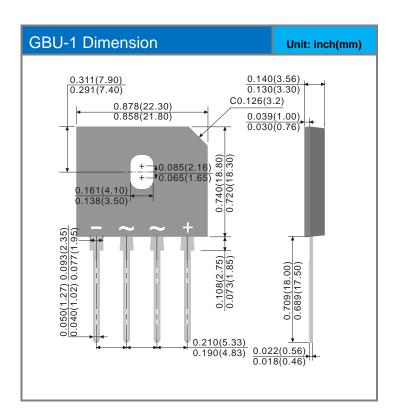




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking
GBU6MP_B0_00101	GBU-1	250 pcs / Box	GBU6MP

Packaging Information



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