

Glass Passivated Bridge Rectifier

Voltage

1000 V

Current

4A

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		Vrrm	1000	V
Maximum RMS Voltage		V _{RMS}	700	V
Maximum DC Blocking Voltage		Vdc	1000	V
Maximum Average Forward Current		I _{F(AV)}	4	А
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C @ T _A = 125 °C	IFSM	135 108	А
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C @ T _A = 125 °C	Ігѕм	270 216	А
I^2 t rating for fusing (t = 8.3ms)		I²t	75.6	A ² S
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$		CJ	50	pF
Typical Thermal Resistance ^(Note 2)		Rejc	2	°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	VF	I _F = 2 A, T _J = 25 °C	-	-	1.0	V	
Reverse Current	I _R	$V_R = 1000 V, T_J = 25 ^{\circ}C$	-	-	5	uA	
		V _R = 1000 V,T _J = 125 °C	-	-	500		

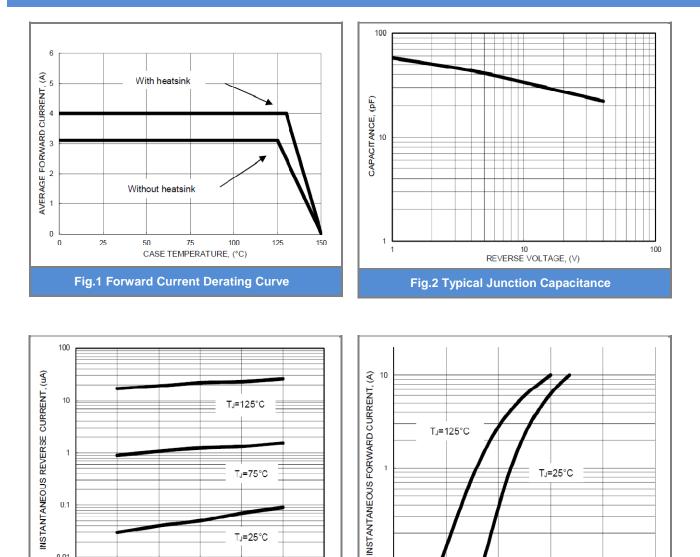
NOTES :

- 1. Mounted on a FR4 PCB standard pad
- 2. Device mounted on 40 mm * 40 mm * 2 mm Cu Plate heatsink.



GBU4MP

TYPICAL CHARACTERISTIC CURVES



TJ=25°C

1000

1200

800

0.01

0

200

400

600

Fig.3 Typical Reverse Characteristics

RATED PEAK REVERSE VOLTAGE

0.1

0.1

0.6

8.0

Fig.4 Typical Forward Characteristics

1 INSTANTANEOUS FORWARD VOLTAGE, (V)

1.2

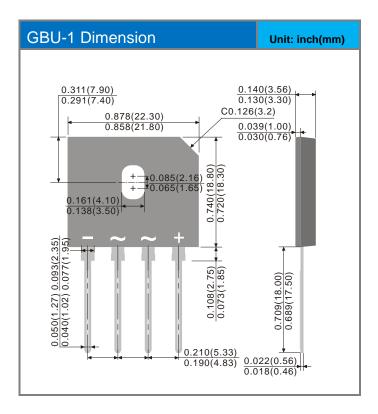
1.1



Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	
GBU4MP_B0_00101	GBU-1	250 pcs / Box	GBU4MP	

Packaging Information





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.