

Glass Passivated Low VF Bridge Rectifier

Voltage

800 V

Current

25A

HF

Features

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

Mechanical Data

• Case: GBU-2 Package

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

• Approx. Weight: 3.8348 grams

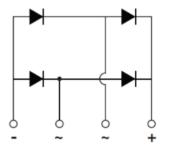
Application

- Computing Power / Desktop Power
- Game Console Power
- Server Power
- Air Conditioner out door power board
- High Power/High Efficiency Power
- Home Appliances Power Board

Key Parameters			
Parameter	Value		
V_{RRM}	800V		
I _F (AV)	25A		
I _{FSM}	400A		
V _F @125°C,(typ)	0.8V		
I _R	5uA		
Package	GBU-2		

GBU-2







Maximum Ratings and Thermal Characteristics ($T_A = 25$ °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		25	А	
	Without heatsink	I _{F(AV)}	3.2		
Peak Forward Surge Current: 8.3 ms	@ T _A = 25 °C		400	А	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	320		
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		800	А	
	@ T _A = 125 °C	IFSM	640		
I ² t rating for fusing (t = 8.3ms)	I²t	664	A ² S		
Typical Junction Capacitance Measured at 1 MHZ And Applied V _R = 4	Сл	220	pF		
	R _θ ЈА	6	°C/W		
Typical Thermal Resistance (Note 1) (with heatsink)		Rejl			3
		R _{eJC}			2
Operating junction and storage temperature range		T _J , T _{STG}	-55~150	°C	
Mounting torque @ Recommend torque:5Kg.cm		Tor	8	Kg.cm	

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

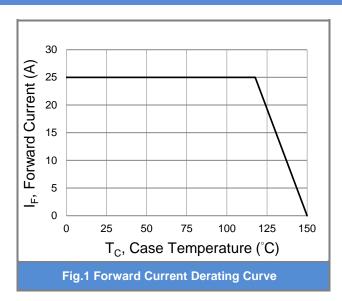
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F = 12.5 A, T _J = 25 °C	-	-	0.95	
		I _F = 12.5 A, T _J = 125 °C	-	0.8	i	V
D		V _R = 800 V, T _J = 25 °C	-	-	5	•
Reverse Current	IR	V _R = 800 V,T _J = 125 °C	-	-	100	uA

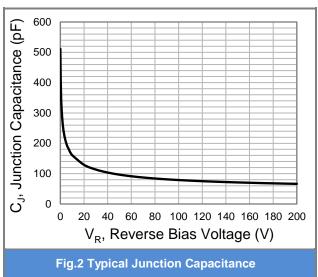
NOTES:

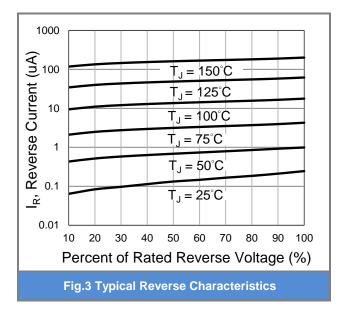
1. Device mounted on 100 mm * 94 mm * 26 mm Fin type heat sink .

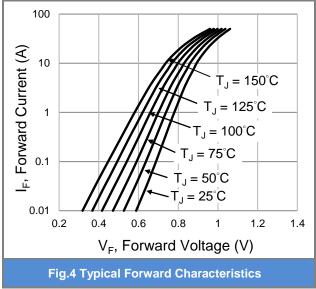


TYPICAL CHARACTERISTIC CURVES







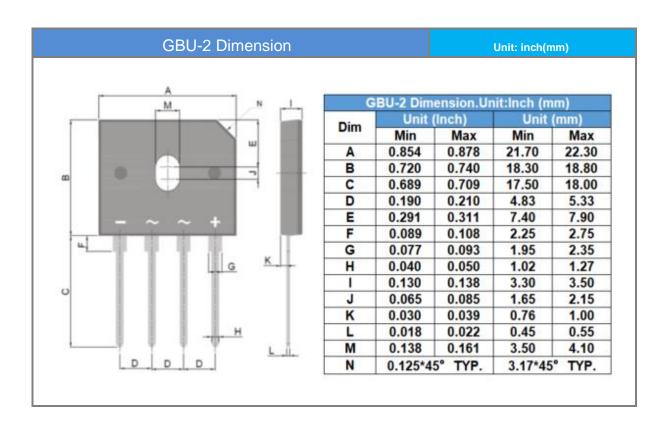




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GBU2508LL	GBU-2	20 pcs / tube	GBU2508LL

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.