

Glass Passivated Low VF Bridge Rectifier

Voltage 800 V Current

<u>GBU-2</u>

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



15A

Mechanical Data

• Case: GBU-2 Package

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

• Approx. Weight: 3.8348 grams

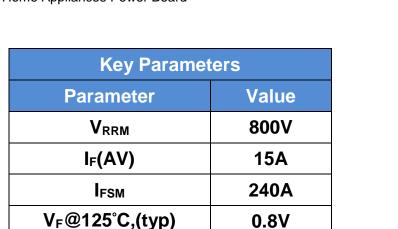
Application

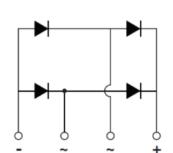
- Computing Power / Desktop Power
- Game Console Power
- Server Power
- Air Conditioner out door power board

 I_R

Package

- High Power/High Efficiency Power
- Home Appliances Power Board





5uA

GBU-2



Maximum Ratings and Thermal Characteristics ($T_A = 25$ °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Volt	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		15	
	Without heatsink	I _{F(AV)}	3	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		240	
	@ T _A = 125 °C	IFSM	192	A
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		480	_
	@ T _A = 125 °C	IFSM	384	A
I ² t rating for fusing (t = 8.3ms)	I²t	239	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	Сл	85	pF	
	R _Ө ЈА	6		
Typical Thermal Resistance (Note 1	Rejl	3	°C/W	
		R _{eJC}	2	
Operating junction and storage tempera	TJ, TSTG	-55~150	°C	
Mounting torque @ Recommend torque	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 = 7.5 A, T _J = 25 °C	-	1	0.95	V	
		I _F = 7.5 A, T _J = 125 °C	-	0.8	-		
Reverse Current	I _R	V _R = 800 V, T _J = 25 °C	-	ı	5		
		V _R = 800 V,T _J = 125 °C	-	-	100	uA	

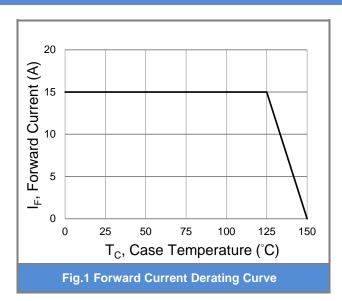
NOTES:

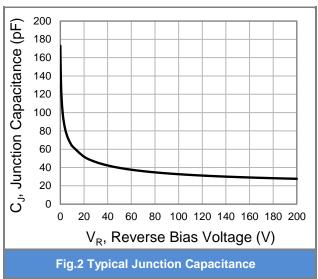
1. Device mounted on 100 mm * 94 mm * 26 mm Fin type heat sink .

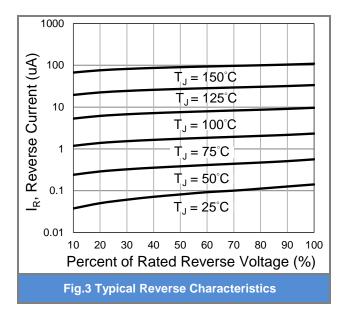
January 12,2024 GBU1508LL-REV.01 Page 2

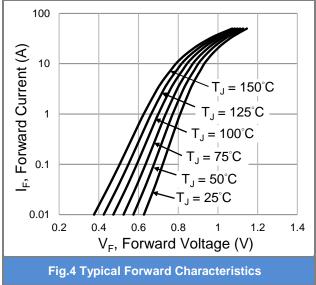


TYPICAL CHARACTERISTIC CURVES







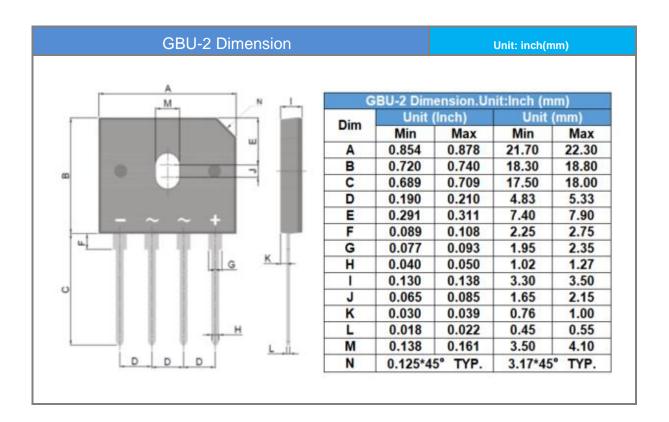




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GBU1508LL	GBU-2	20 pcs / tube	GBU1508LL

Packaging Information



January 12,2024 GBU1508LL-REV.01 Page 4



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.

January 12,2024 GBU1508LL-REV.01 Page 5