

GBU10005 THRU GBU1010

SINGLE PHASE 10.0AMP GLASS PASSIVATED BRIDGE RECTIFIER

Features

- · Glass passivated die construction
- Low forward voltage drop
- · High current capability
- · High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data

· Case: GBU, molded plastic

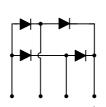
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

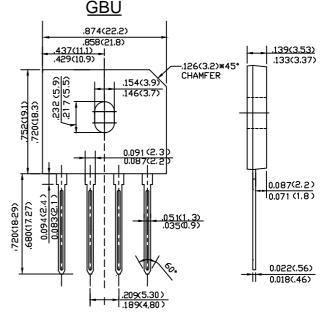
Polarity: As Marked on Case

Mounting Position: Any

Marking: Type Number

• Lead Free: For RoHS / Lead Free Version





dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

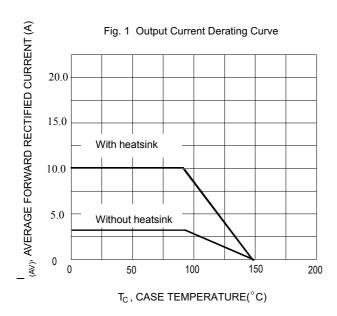
Rating at 25°C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

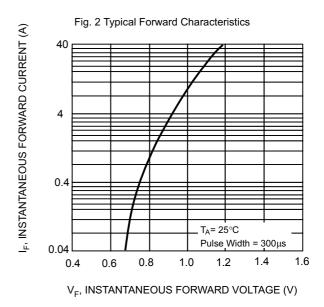
TYPE NUMBER	SYMBOL	GBU 10005	GBU 1001	GBU 1002	GBU 1004	GBU 1006	GBU 1008	GBU 1010	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VDC	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	٧
Average Rectified Output Current (with heatsink) @T _C =90°C (without heatsin	k) I _{F(AV)}	10.0 3.0						А	
Non-Repetitive Peak Forward Surge Current @T _J =25 8.3ms Single half sine-wave superimposed @T _{J=12} on rated load (JEDEC Method)		240 192						А	
Non-Repetitive Peak Forward Surge @TJ=25℃ Current 1 ms Single half sine-wave @TJ=125℃ superimpose on rated load (JEDEC Method)	IFSM	480 384						А	
Forward Voltage per element @IF=5.0A	V _{FM}	1.0						V	
Peak Reverse Current @TJ=25℃ At Rated DC Blocking Voltage @TJ=125℃	lr	5.0 200							uA
I ² t Rating for fusing (t <8.3ms)	1 ² t	239.04						A ² s	
Dielectric Strength	Vids	2500						V	
The proposed installation torque Max torque	Tor	5.0 8.0						Kgf.cm	
Typical Junction Capacitance (Note 1)	CJ	75						pF	
Typical Thermal Resistance	Reja	28							°C/W
	Rejc	8.7							
	Rejl	5.3							
Operating and Storage Temperature Range	Т _J ,Тsтg	-55to+150						$^{\circ}$	

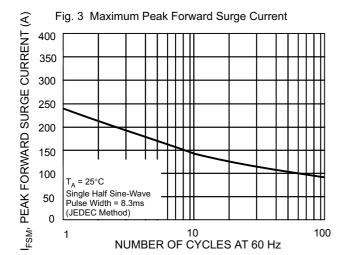
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



GBU10005 THRU GBU1010









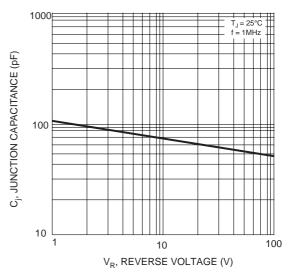
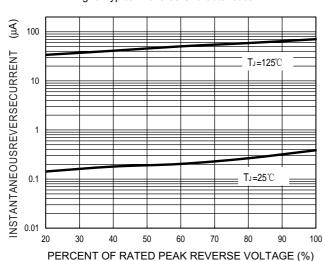


Fig. 5 Typical Reverse Characteristics





GBU10005 THRU GBU1010

Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from XINNUO
- XINNUOreserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- •XINNUOdisclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- XINNUO does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the here in document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.
 - XINNUO makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown here in 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 ris k andagree to fully indemnifyXINNUOfor any damages resulting from such improper use or sale.
- Since XINNUO uses lot number as the tracking base, please provide the lot number for tracking when complaining.

version:03 3 of 3 www.dyelec.com