Glass Passivated Bridge Rectifiers



GBU10005-G Thru. GBU1010-G

Reverse Voltage: 50 to 1000V

Forward Current: 10A

RoHS Device



Features

- -Surge overload rating -220 amperes peak.
- -Ideal for printed circuit board.
- -UL recognized file # E349301



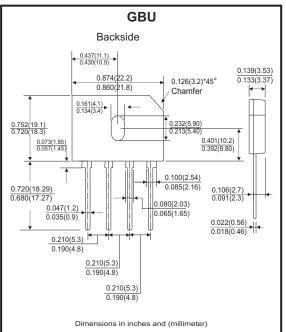
Mechanical Data

-Epoxy: UL 94V-0 rate flame retardant.

-Case: Molded plastic, GBU

-Mounting position: Any

-Weight: 3.91 grams (approx.).



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%

Parameter	Symbol	GBU 10005-G	GBU 1001-G	GBU 1002-G	GBU 1004-G	GBU 1006-G	GBU 1008-G	GBU 1010-G	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward (With heatsink Note2) Rectified Current @Tc=100°C (without heatsink)	I _(AV)	10.0 3.0				А			
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	IFSM	220					Α		
Maximum Forward Voltage at 5.0A DC	VF	1.0				V			
Maximum DC Reverse Current @Tj=25°C At Rate DC Blocking Voltage @Tj=125°C	lR	10.0 500					μA		
I ² T Rating for Fusing(t<8.3ms)	I ² t	200				A ² s			
Typical Junction Capacitance Per Element (Note 1)	Cı	70				pF			
Typical Thermal Resistance	Rejc	2.2					°C/W		
Operating Temperature Range	TJ	-55 to +150				°C			
Storage Temperature Range	Тѕтс	-55 to +150				°C			

- 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC. 2. Device mounted on 100mm*100mm*1.6mm Cu plate heatsink.

Company reserves the right to improve product design, functions and reliability without notice.

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Rating and Characteristics Curves (GBU10005-G Thru. GBU1010-G)

Fig.1 - Derating Curve Output Rectified Current

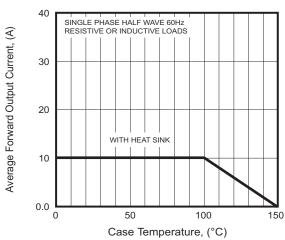


Fig.2 - Maximum Forward Surge Current

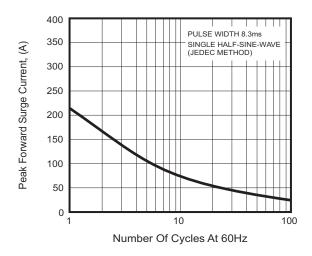


Fig.3 - Typical Forward Characteristics

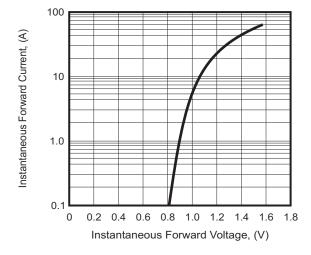
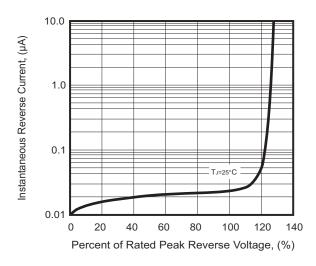


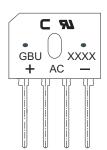
Fig.4 - Typical Reverse Characteristics





Marking Code

Part Number	Marking code		
GBU10005-G	GBU10005		
GBU1001-G	GBU1001		
GBU1002-G	GBU1002		
GBU1004-G	GBU1004		
GBU1006-G	GBU1006		
GBU1008-G	GBU1008		
GBU1010-G	GBU1010		



XXXX / XXXXX = Product type marking code **□** = Compchip Logo

Standard Packaging

	TUBE PACK				
Case Type TUBE (pcs)		Carton (pcs)			
GBU	20	1,000			