## **Glass Passivated Bridge Rectifiers**



# GBU15005-G Thru. GBU1510-G

Reverse Voltage: 50 to 1000V

Forward Current: 15.0A

**RoHS Device** 



### **Features**

- -Surge overload rating -240 amperes peak.
- -Ideal for printed circuit board.
- -UL recognized file # E349301



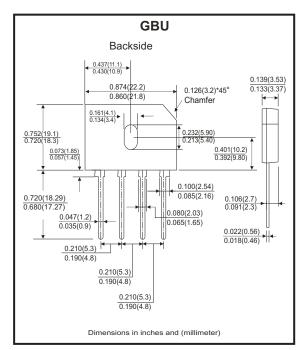
### Mechanical Data

-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 15005-G	GBU 1501-G	GBU 1502-G	GBU 1504-G	GBU 1506-G	GBU 1508-G	GBU 1510-G	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward (With heatsink Note2) Rectified Current @Tc=100°C (without heatsink)	I <sub>(AV)</sub>	15.0 3.2				А			
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	IFSM	240					А		
Maximum Forward Voltage at 7.5A DC	VF	1.0					V		
Maximum DC Reverse Current @Tj=25°C At Rate DC Blocking Voltage @Tj=125°C	lR	10.0 500					μΑ		
I <sup>2</sup> T Rating for Fusing(t<8.3ms)	I <sup>2</sup> t	239				A <sup>2</sup> 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			

QW-BBR64

- 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.

Comchip Technology CO., LTD.

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### Rating and Characteristics Curves (GBU15005-G Thru. GBU1510-G)

Fig.1 - Derating Curve Output Rectified Current

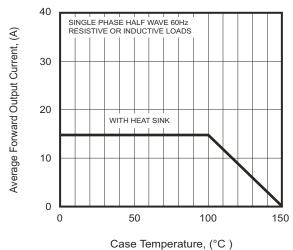


Fig.2 - Max. Forward Surge Current

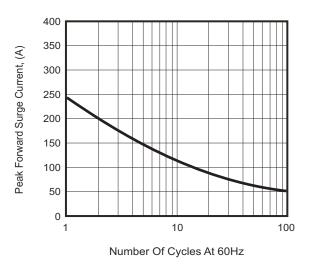


Fig.3 - Typical Forward Characteristics

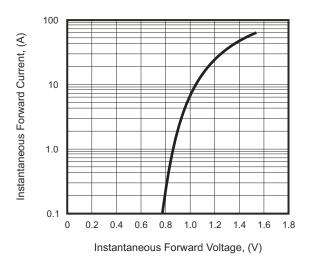
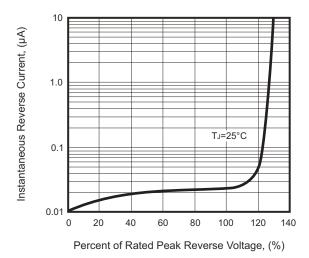


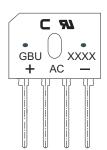
Fig.4 - Typical Reverse Characteristics





# **Marking Code**

Part Number	Marking code		
GBU15005-G	GBU15005		
GBU1501-G	GBU1501		
GBU1502-G	GBU1502		
GBU1504-G	GBU1504		
GBU1506-G	GBU1506		
GBU1508-G	GBU1508		
GBU1510-G	GBU1510		



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

## **Standard Packaging**

Case Type	TUBE PACK				
	TUBE ( pcs )	Carton ( pcs )			
GBU	GBU 20				