

# Glass Passivated Bridge Rectifiers

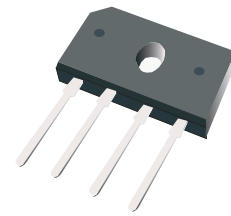


## GBU15005-G Thru. GBU1510-G

Reverse Voltage: 50 to 1000V

Forward Current: 15.0A

RoHS Device

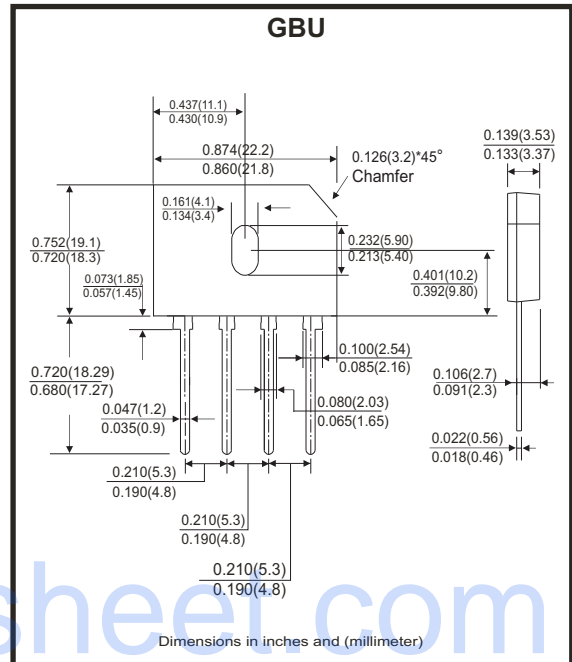


### Features

- Surge overload rating - 240 amperes peak.
- Ideal for printed circuit board.

### Mechanical Data

- Epoxy: U/L 94-V0 rate flame retardant.
- Case: Molded plastic, GBU
- Mounting position: Any
- Weight: 3.91grams



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### 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 Reverse Peak Repetitive 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 @ $T_c=100^{\circ}C$ (without hestsink)	$I_{AV}$					15.0			A
						3.2			
Peak Forward Surage Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load(JEDEC Method)	$I_{FSM}$					240			A
Maximum Forward Voltage at 7.5A	$V_F$					1.1			V
Maximum DC Reverse Current @ $T_J=25^{\circ}C$ At Rate DC Blocking Voltage @ $T_J=125^{\circ}C$	$I_R$					10.0			$\mu A$
						500			
$I^2 T$ Rating for Fusing( $t<8.3ms$ )	$I^2 t$					200			$A^2 s$
Typical Junction Capacitandce Per Element (Note 1)	$C_J$					70			pF
Typical Thermal Resistance	$R_{\theta JC}$					2.2			$^{\circ}C/W$
Operating Temperature Range	$T_J$					-55 to +150			$^{\circ}C$
Storage Temperature Range	$T_{STG}$					-55 to +150			$^{\circ}C$

Notes:

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

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

Fig.1- Derating Curve Output Rectified Current

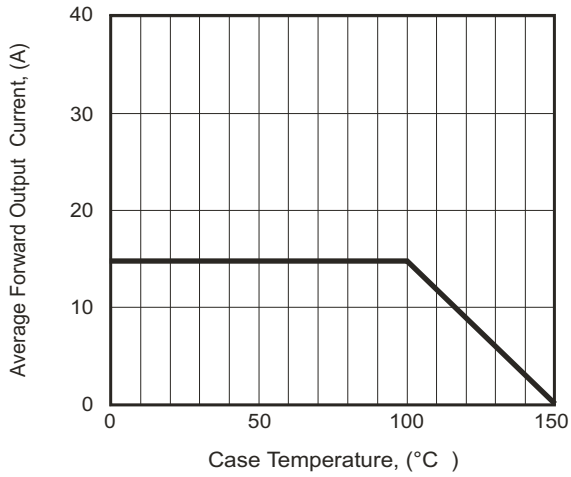


Fig.2- Maximum Forward Surge Current

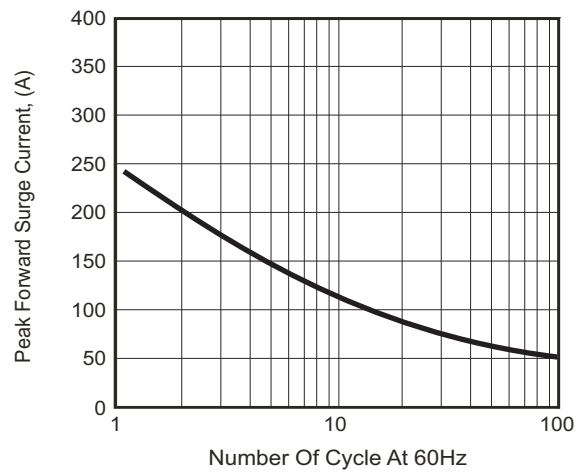


Fig.3- Typical Forward Characteristics

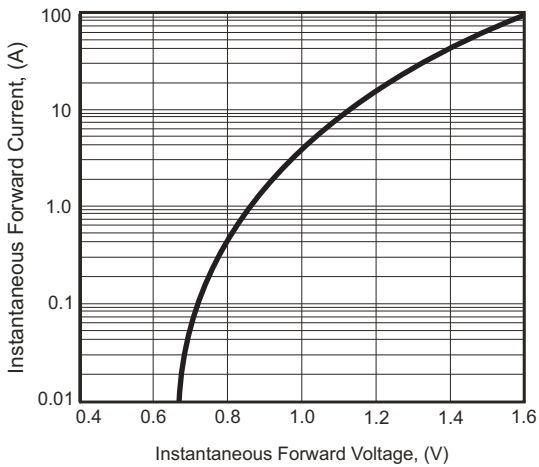
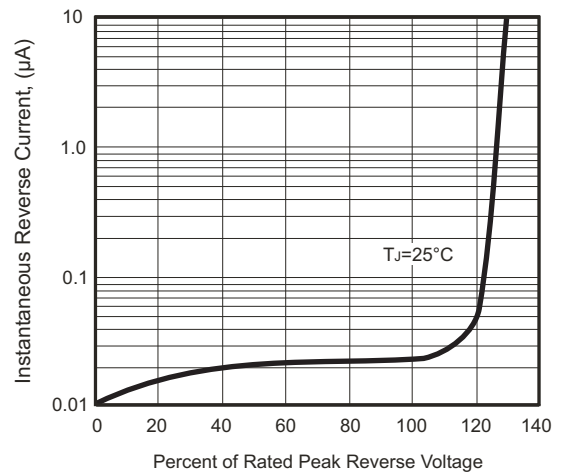
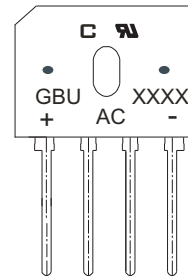


Fig.4- Typical Reverse Characteristics



## Marking Code

Part Number	Marking code
GBU15005-G	GBU15005
GBU1501-G	GBU1501
GBU1502-G	GBU1502
GBU1504-G	GBU1504
GBU1506-G	GBU1506
GBU1508-G	GBU408
GBU1510-G	GBU1510



XXXX / XXXXX = Product type marking code  
 □ = Comchip Logo

## Standard Packaging

Case Type	TUBE PACK		
	TUBE (EA)	BOX (EA)	CARTON (EA)
GBU	20	1,000	2,000

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