imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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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

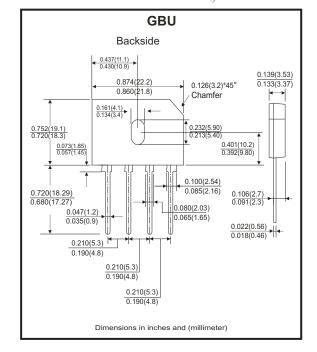
Mechanical Data

-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	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	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				A			
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	IFSM	220					А		
Maximum Forward Voltage at 5.0A DC	VF	1.0				V			
Maximum DC Reverse Current@TJ=25°CAt Rate DC Blocking Voltage@TJ=125°C	IR	10.0 500				μA			
I ² T Rating for Fusing(t<8.3ms)	l ² t	200				A²s			
Typical Junction Capacitance Per Element (Note 1)	CJ	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				

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.

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

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

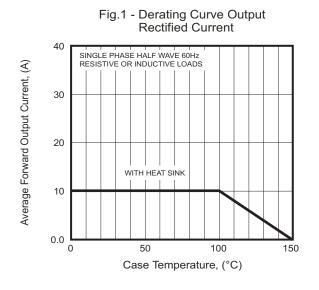
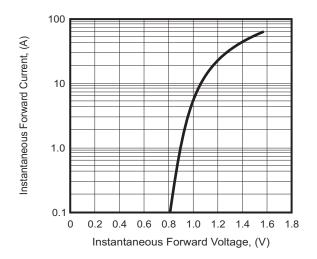


Fig.3 - Typical Forward Characteristics



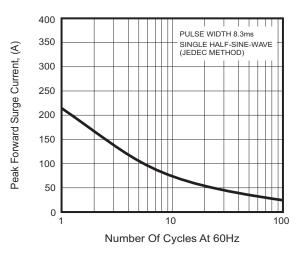
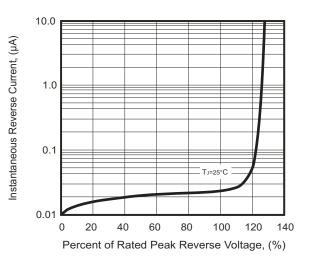


Fig.2 - Maximum Forward Surge Current

Fig.4 - Typical Reverse Characteristics

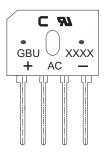


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Marking Code

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

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

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