

GBU10005G THRU GBU1010G

BRIDGE RECTIFIERS

FEATURES

- · UL Recognized File #E469616
- · Glass passivated chip junction
- · Reliable low cost construction utilizing molded plastic technique
- · Ideal for printed circuit board
- · Low forward voltage drop
- · Low reverse leakage current
- · High surge current capability

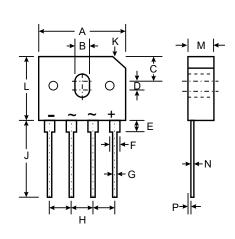
MECHANICAL DATA

Case: Molded plastic, GBU

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202,

method 208 guaranteed Mounting position: Any Weight: 0.15ounce, 4.0gram GBU



Dim	Min	Max				
Α	21.8	22.3				
В	3.5	4.1				
С	7.4	7.9				
D	1.65	2.16				
E	2.25	2.75				
F	2.05	2.3				
G	1.02	1.27				
Н	4.83	5.33				
J	17.5	18.0				
K	4.2 >	〈 45°				
L	18.3	18.8				
М	3.30	3.56				
N	0.46	0.56				
Р	0.76	1.0				

Dimensions in millimeters

Maximum Ratings and Electrical Characteristics

Ratings at 25 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 10005G	GBU 1001G	GBU 1002G	GBU 1004G	GBU 1006G	GBU 1008G	GBU 1010G	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	VRRM VRWM	50	100	200	400	600	800	1000	V
DC Blocking Voltage	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@Tc=90°C	I F(AV)	10.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	220						А	
Forward Voltage per element @IF=5A @IF=10A	Vғм	1.0 1.1					V		
Peak Reverse Current @TA = 25 ℃ At Rated DC Blocking Voltage @TA = 125 ℃		5.0 500							uA
I ² t Rating for fusing (t <8.3ms)	l ² t	166							A ² s
Typical Junction Capacitance per leg (Note 2)	CJ	70							pF
Typical Thermal Resistance per leg (Note 3)	Reja	30.9							°C/W
Typical Themal Nesistance per leg (Note 3)	Rejl	7.3							
Operating and Storage Temperature Range	Т _J ,Тsтg	-55to+150							$^{\circ}\mathbb{C}$

Note:1. Mounted on glass epoxy PC board with 1.3mm solder pad.

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 3. Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.





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Characteristic Curves (T_A=25 ℃ unless otherwise noted)

