

# GBU10005 - GBU1010

### 10A GLASS PASSIVATED BRIDGE RECTIFIER

#### **Features**

- Glass Passivated Die Construction
- High Case Dielectric Strength of 1500VRMS
- Low Reverse Leakage Current
- Surge Overload Rating to 220A Peak
- Ideal for Printed Circuit Board Applications
- Plastic Material: UL Flammability Classification Rating 94V-0
- UL Listed Under Recognized Component Index, File Number E94661

## **Mechanical Data**

Case: Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

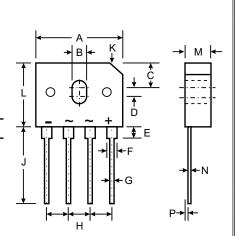
Polarity: Marked on Body

Mounting: Through Hole for #6 Screw

• Mounting Torque: 5.0 Inch-pounds Maximum

Marking: Date Code and Type Number

• Weight: 6.6 grams (approx.)



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					
G	1.02	1.27					
Н	4.83	5.33					
J	17.5	18.0					
K	3.2 X 45°						
L	18.3	18.8					
М	3.30	3.56					
N	0.46	0.56					
Р	0.76	1.0					
All Dimensions in mm							

## Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	GBU 10005	GBU 1001	GBU 1002	GBU 1004	GBU 1006	GBU 1008	GBU 1010	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		35	70	140	280	420	560	700	٧
Average Rectified Output Current (Note 1) @ T <sub>C</sub> = 100°C		10							Α
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		220						А	
Forward Voltage (per element) @ I <sub>F</sub> = 5.0A	V <sub>FM</sub>	1.0							V
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		5.0 500						μА	
I <sup>2</sup> t Rating for Fusing (Note 2)		200							A <sup>2</sup> s
Typical Junction Capacitance per Element (Note 3)		60							pF
Typical Thermal Resistance Junction to Case (Note 1)		2.2						°C/W	
Operating and Storage Temperature Range		-55 to +150						°C	

Notes:

- 1. United mounted on 100 x 100 x 1.6mm copper plate heatsink.
- 2. Non-repetitive, for t > 1.0ms and < 8.3ms.
- 3. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

