# GBU4005 - GBU410

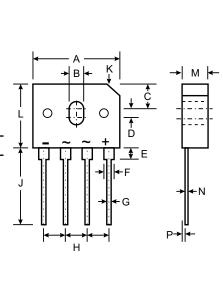
## 4.0A GLASS PASSIVATED BRIDGE RECTIFIER

#### Features

- Glass Passivated Die Construction
- High Case Dielectric Strength of 1500VRMS
- Low Reverse Leakage Current
- Surge Overload Rating to 150A 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						
Е	2.25	2.75						
G	1.02	1.27						
н	4.83	5.33						
J	17.5	18.0						
к	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 @ T<sub>A</sub> = 25°C unless otherwise specified

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

Characteristic	Symbol	GBU 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	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	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ T <sub>C</sub> = 100°C		4.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		150							A
Forward Voltage (per element) @ I <sub>F</sub> = 2.0A	VFM	1.0							V
Peak Reverse Current $@T_C = 25^{\circ}C$ at Rated DC Blocking Voltage $@T_C = 125^{\circ}C$		5.0 50							μA
I <sup>2</sup> t Rating for Fusing (Note 2)		93							A <sup>2</sup> s
Typical Junction Capacitance per Element (Note 3)		80							pF
Typical Thermal Resistance Junction to Case (Note 1)		2.2						°C/W	
Operating and Storage Temperature Range		-55 to +150						°C	

Notes: 1. Unit mounted on 50mm x 50mm 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.

