

GBU8005 - GBU810

8.0A GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- High Case Dielectric Strength of 1500VRMS
- Low Reverse Leakage Current
- Surge Overload Rating to 200A 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 Rody

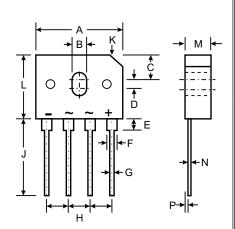
Polarity: Marked on Body

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 8005	GBU 801	GBU 802	GBU 804	GBU 806	GBU 808	GBU 810	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ T _C = 100°C		8.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		200						А	
Forward Voltage (per element) @ I _F = 4.0A		1.0							٧
Peak Reverse Current @T _C = 25°C at Rated DC Blocking Voltage @T _C = 125°C		5.0 500						μА	
I ² t Rating for Fusing (t < 8.3ms) (Note 2)		166							A ² s
Typical Junction Capacitance per Element (Note 3)		130							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 50 x 50 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.

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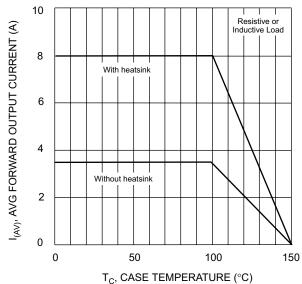
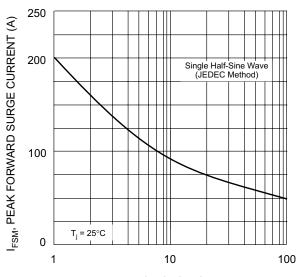


Fig. 1 Forward Current Derating Curve



NUMBER OF CYCLES AT 60 Hz Fig. 3 Maximum Non-Repetitive Surge Current

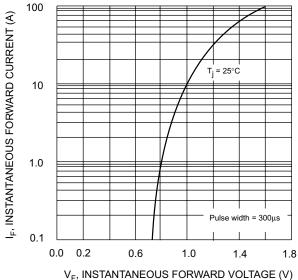


Fig. 2 Typical Forward Characteristics

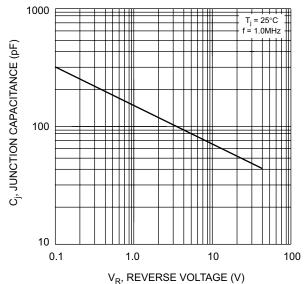


Fig. 4 Typical Junction Capacitance