

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
- UL Listed Under Recognized Component Index, File Number E94661
- Lead Free Finish, RoHS Compliant (Note 4)

Mechanical Data

- Case: GBU
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Plated Leads. Solderable per MIL-STD-202, Method 208 (23)
- Lead Free Plating (Tin Finish)
- Polarity: Marked on Body
- Mounting: Through Hole for #6 Screw
- Mounting Torque: 5.0 Inch-pounds Maximum
- Ordering Information: See Last Page
- Marking: Date Code and Type Number
- Weight: 6.6 grams (approximate)

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	1.95	2.35				
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_A = 25°C unless otherwise specified

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

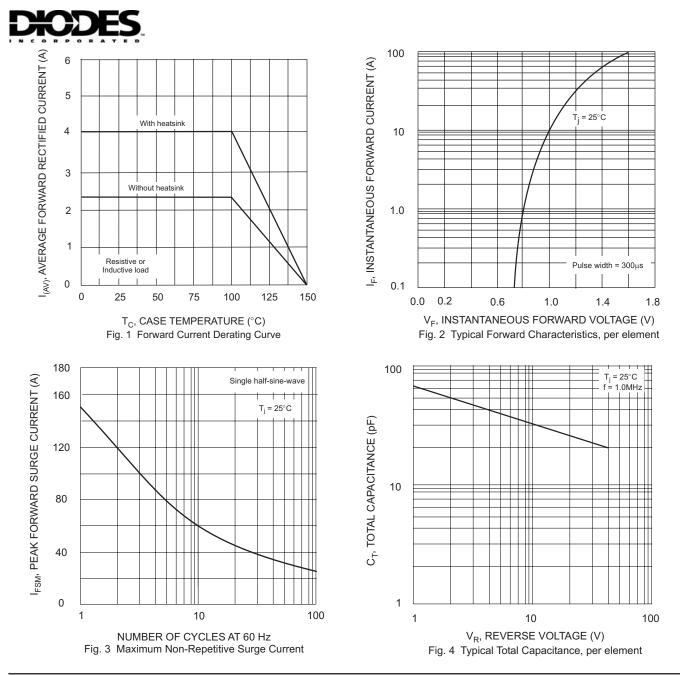
Characteristic	Symbol	GBU 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	v
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Forward Rectified Current (Note 1) @ $T_C = 100^{\circ}C$		4.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		150					А		
Forward Voltage (per element) @ I _F = 2.0A		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 ² t Rating for Fusing (Note 2)		93					A ² s		
Typical Total 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.

4. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.



Ordering Information (Note 5)

Device	Packaging	Shipping		
GBU4005	GBU	20/Tube		
GBU401	GBU	20/Tube		
GBU402	GBU	20/Tube		
GBU404	GBU	20/Tube		
GBU406	GBU	20/Tube		
GBU408	GBU	20/Tube		
GBU410	GBU	20/Tube		

Notes: 5. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02008.pdf



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