imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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				
Ν	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%.

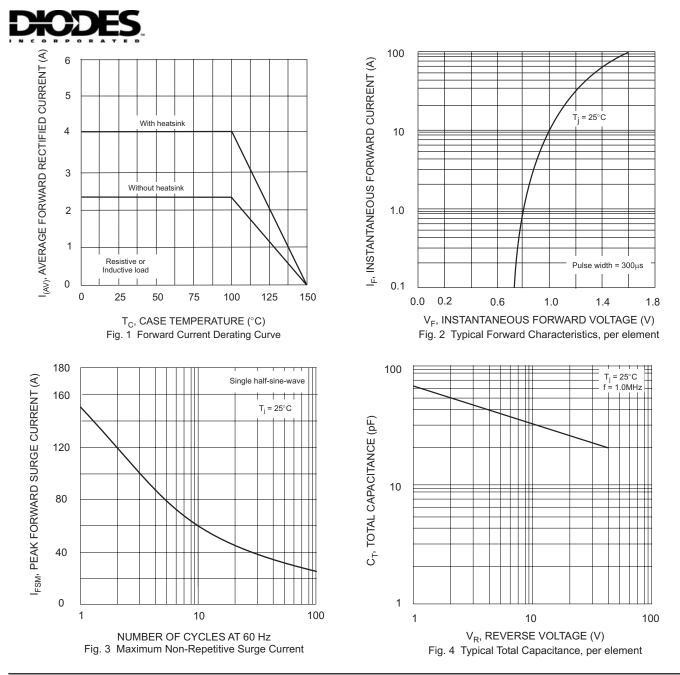
Characteristic	Symbol	GBU 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Forward Rectified 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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