

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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GBJ8005 - GBJ810

8.0A GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- High Case Dielectric Strength of 1500V_{RMS}
- Low Reverse Leakage Current
- Surge Overload Rating to 170A Peak
- Ideal for Printed Circuit Board Applications
- UL Listed Under Recognized Component Index, File Number E94661
- Lead Free Finish/RoHS Compliant (Note 4)

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Mechanical Data

- Case: GBJ
- 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 @3
- Lead Free Plating (Tin Finish).
- Polarity: Molded on Body
- Mounting: Through Hole for #6 Screw
- Mounting Torque: 5.0 in-lbs Maximum
- Marking: Type Number
- Weight: 6.6 grams (approximate)

GBJ						
Dim	Min	Max				
Α	29.70	30.30				
В	19.70	20.30				
С	17.00	18.00				
D	3.80	4.20				
E	7.30	7.70				
G	9.80	10.20				
Н	2.00	2.40				
I	0.90	1.10				
J	2.30	2.70				
K	3.0 X 45°					
L	4.40	4.80				
M	3.40	3.80				
N	3.10	3.40				
Р	2.50	2.90				
R	0.60	0.80				
s	10.80	11.20				
All Dimensions in mm						

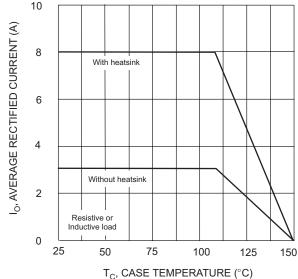
Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

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

Characteristic	Symbol	GBJ 8005	GBJ 801	GBJ 802	GBJ 804	GBJ 806	GBJ 808	GBJ 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 Forward Rectified Output Current @ T _C = 110°C		8.0						Α	
Non-Repetitive Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load		170					А		
Forward Voltage per element @ I _F = 4.0A	V _{FM}	1.0					V		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		5.0 500					μА		
I ² t Rating for Fusing (t < 8.3ms) (Note 1)		120					A ² s		
Typical Total Capacitance per Element (Note 2)		55					pF		
Typical Thermal Resistance Junction to Case (Note 3)		1.6					°C/W		
Operating and Storage Temperature Range		-65 to +150					°C		

- 1. Non-repetitive, for t > 1.0ms and < 8.3ms.
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance from junction to case per element. Unit mounted on 100 x 100 x 1.6mm aluminum plate heat sink.
- 4. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.







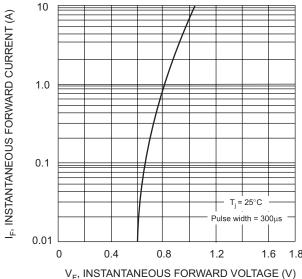
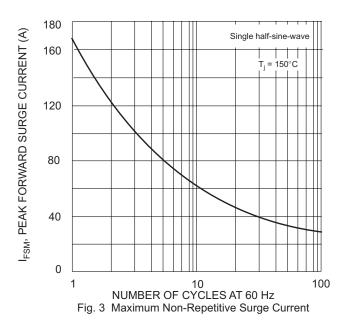
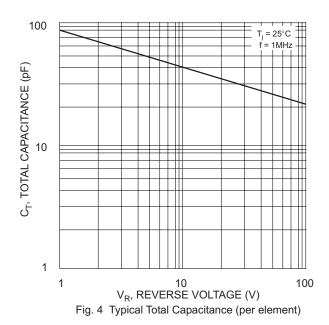
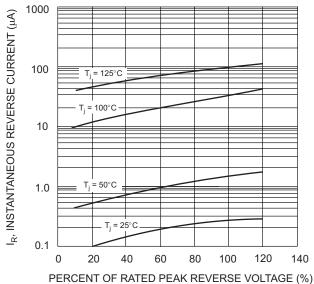


Fig. 2 Typical Forward Characteristics (per element)









Ordering Information (Note 5)

Device	Packaging	Shipping			
GBJ8005-F	GBJ	15/Tube			
GBJ801-F	GBJ	15/Tube			
GBJ802-F	GBJ	15/Tube			
GBJ804-F	GBJ	15/Tube			
GBJ806-F	GBJ	15/Tube			
GBJ808-F	GBJ	15/Tube			
GBJ810-F	GBJ	15/Tube			

Notes: 5. For packaging details, visit our website at http://www.diodes.com/datasheets/ap2008.pdf.

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