

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			
М	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					

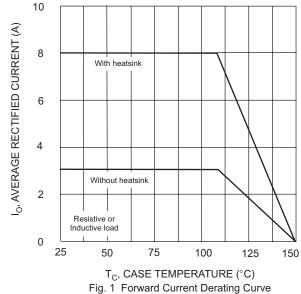
Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

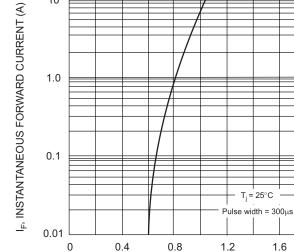
Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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					Α		
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.

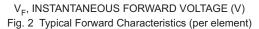




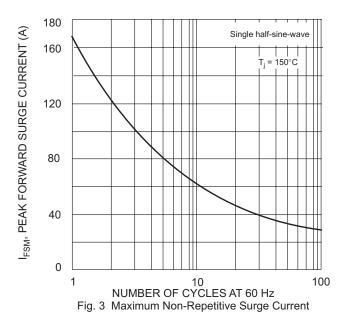


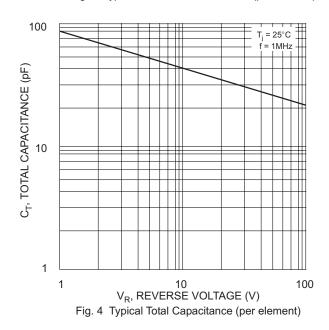
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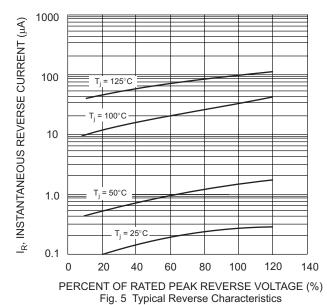
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Ordering Information (Note 5)

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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