

GBJ6005 - GBJ610

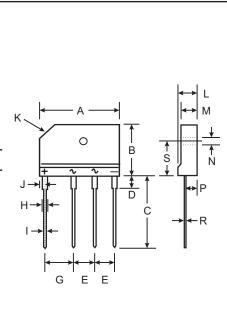
6.0A GLASS PASSIVATED BRIDGE RECTIFIER

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)

Mechanical Data

- Case: GBJ
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Lead Free Plating (Tin Finish).
- Terminals: Plated Leads, Solderable per MIL-STD-202, Method 208 (3)
- 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 4.20				
D	3.80					
Е	7.30	7.70				
G	9.80	10.20				
н	2.00	2.40				
I	0.90	1.10				
J	2.30	2.70				
К	3.0 X 45°					
L	4.40	4.80				
М	3.40	3.80				
Ν	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 [@] T_A = 25°C unless otherwise specified

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

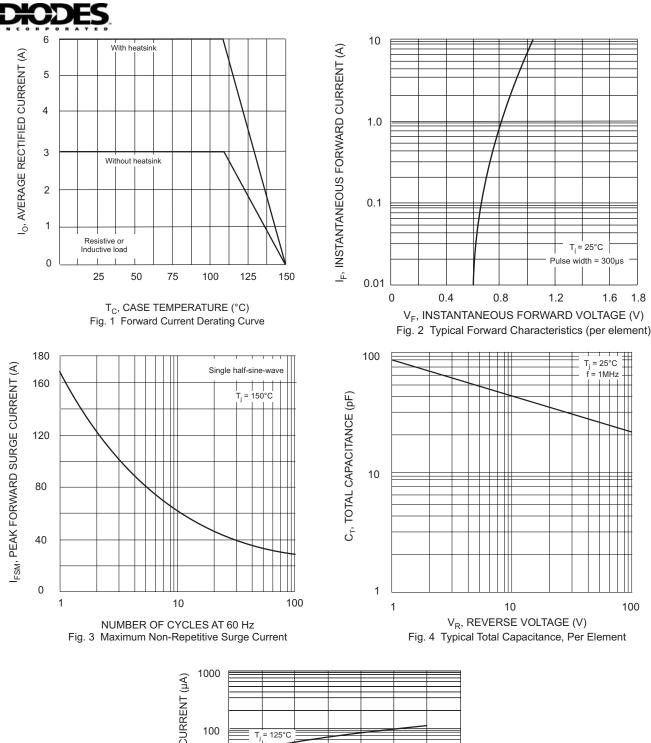
Characteristic	Symbol	GBJ 6005	GBJ 601	GBJ 602	GBJ 604	GBJ 606	GBJ 608	GBJ 610	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		50	100	200	400	600	800	1000	V
RMS Reverse Voltage		35	70	140	280	420	560	700	V
Average Forward Rectified Output Current @ T _C = 110°C		6.0					Α		
Non-Repetitive Peak Forward Surge Current, 8.3 ms single half-sine-wave superimposed on rated load	I _{FSM}				170				A
Forward Voltage per element $@ I_F = 3.0A$		1.0						V	
Peak Reverse Current@ $T_C = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_C = 125^{\circ}C$		5.0 500					μA		
I ² t Rating for Fusing (t < 8.3ms) (Note 1)	l ² t				120				A ² s
Typical Total Capacitance per Element (Note 2)		55					pF		
Typical Thermal Resistance Junction to Case (Note 3)		1.8				°C/W			
Operating and Storage Temperature Range		-65 to +150					°C		

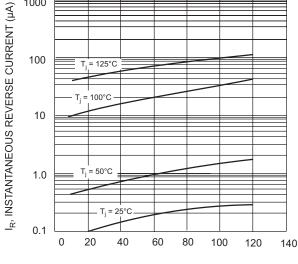
Notes: 1. Non-repetitive, for t > 1ms and < 8.3 ms.

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 75 x 75 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.





PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics



Ordering Information (Note 5)

Device	Packaging	Shipping
GBJ6005-F	GBJ	15/Tube
GBJ601-F	GBJ	15/Tube
GBJ602-F	GBJ	15/Tube
GBJ604-F	GBJ	15/Tube
GBJ606-F	GBJ	15/Tube
GBJ608-F	GBJ	15/Tube
GBJ610-F	GBJ	15/Tube

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