

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Diodes Incorporated GBJ6005

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>





GBJ6005 - GBJ610

6.0A GLASS PASSIVATED BRIDGE RECTIFIER

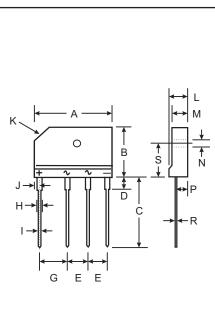
Features

- 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	Мах				
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				
к	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 [@] 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	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 @ $T_C = 110^{\circ}C$	lo	6.0			Α				
Non-Repetitive Peak Forward Surge Current, 8.3 ms single half-sine-wave superimposed on rated load		170					Α		
Forward Voltage per element @ I _F = 3.0A		1.0					V		
$ \begin{array}{ccc} \mbox{Peak Reverse Current} & @\ \mbox{T}_C = 25^\circ\mbox{C} \\ \mbox{at Rated DC Blocking Voltage} & @\ \mbox{T}_C = 125^\circ\mbox{C} \\ \end{array} $		5.0 500					μA		
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)		1.8					°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.

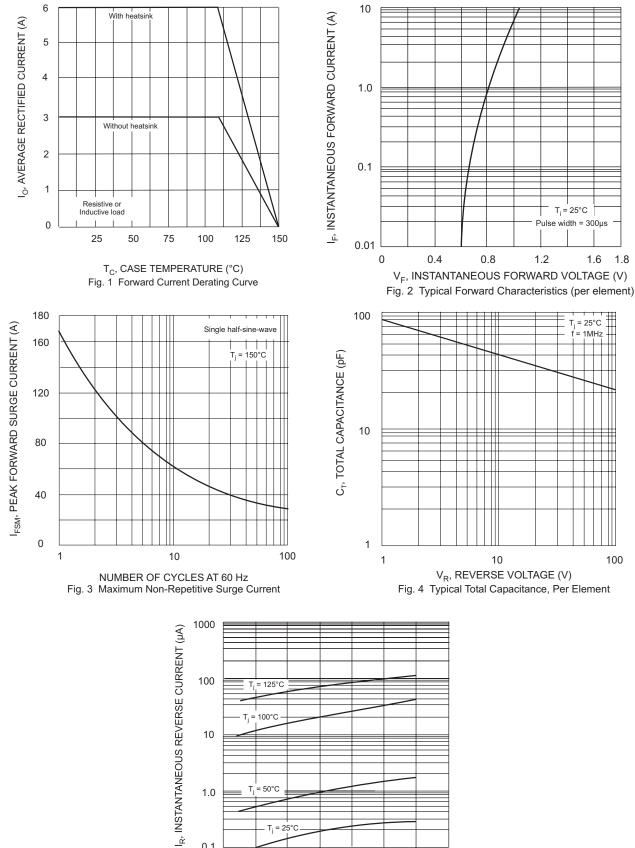
3. Thermal resistance from junction to case per element. Unit mounted on 75 x 75 x 1.6mm aluminum plate heat sink.

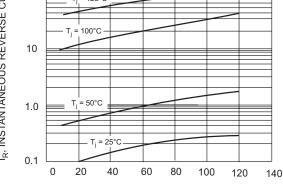
4. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.

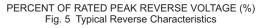


Distributor of Diodes Incorporated: Excellent Integrated System Limited Datasheet of GBJ6005 - RECT BRIDGE GPP 50V 6A GBJ

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com









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/datasheets/ap02008.pdf

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