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## 捷多邦,专业PCB打样工厂,24小时加急出货

# GBJ25005 - GBJ2510

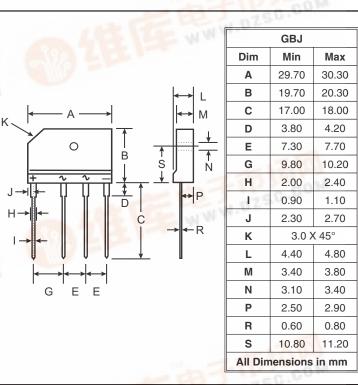
#### 25A GLASS PASSIVATED BRIDGE RECTIFIER

## Features

- Glass Passivated Die Construction
- High Case Dielectric Strength of 1500V<sub>RMS</sub>
- Low Reverse Leakage Current
- Surge Overload Rating to 350A 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 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)



### Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

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

Characteristic	Symbol	GBJ 25005	GBJ 2501	GBJ 2502	GBJ 2504	GBJ 2506	GBJ 2508	GBJ 2510	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Forward Rectified Output Current (Note 1) $@ T_C = 100^{\circ}C$	Ι <sub>Ο</sub>		•		25	-7	703	601	A
Non-Repetitive Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>		18	21	350	WW	0251		A
Forward Voltage (per element) $@ I_F = 12.5A$	V <sub>FM</sub>	3.0	191		1.05				V
Peak Reverse Current@ $T_C = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_C = 125^{\circ}C$	IR	5	1 21		10 500				μA
I <sup>2</sup> t Rating for Fusing (t < 8.3ms) (Note 1)	l <sup>2</sup> t				510				A <sup>2</sup> s
Typical Total Capacitance (per element) (Note 2)	CT				85				pF
Typical Thermal Resistance Junction to Case (Note 3)	R <sub>0JC</sub>				0.6				°C/W
Operating and Storage Temperature Range	Tj, TSTG			-(	65 to +15	0			°C

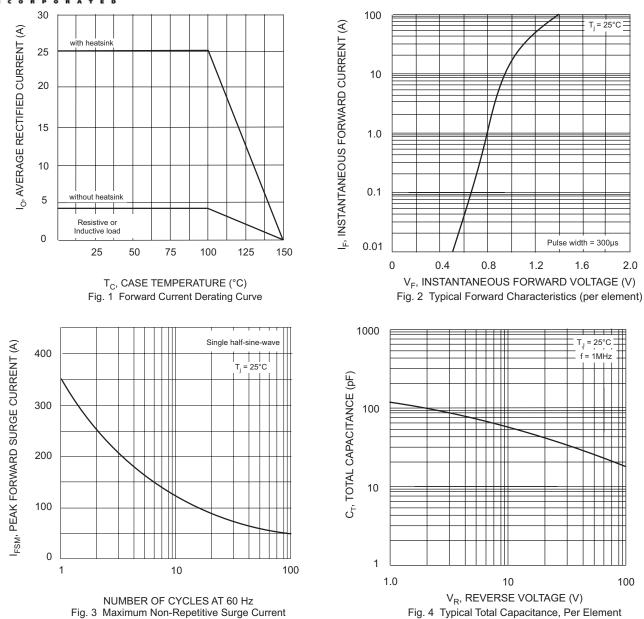
Notes: 1. Non-repetitive, for t > 1ms and < 8.3 ms.

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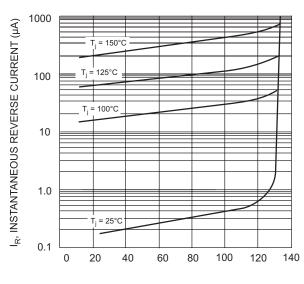
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance from junction to case per element. Unit mounted on 220 x 220 x 1.6mm aluminum plate heat sink.

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
GBJ25005-F	GBJ	15/Tube
GBJ2501-F	GBJ	15/Tube
GBJ2502-F	GBJ	15/Tube
GBJ2504-F	GBJ	15/Tube
GBJ2506-F	GBJ	15/Tube
GBJ2508-F	GBJ	15/Tube
GBJ2510-F	GBJ	15/Tube

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

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