



GBU4J-01 THRU GBU4M-01

# 4 AMPS GLASS PASSIVATED BRIDGE RECTIFIER-600~1000Volts

**GBU(R) PACKAGE** 

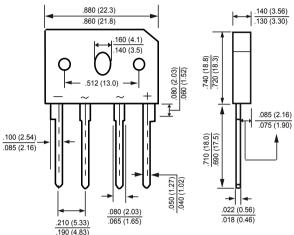
### **FEATURES**

- \* Ideal for printed circuit board
- \* Surge overload rating: 130 Amperes peak
- \* Moisture Sensitivity Level 1
- \* Pb-Free package is available
  RoHS product for packing code suffix "G"
  Halogen free product for packing code suffix "H"

#### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* UL listed the recognized component directory, file #E195711
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Mounting position: Any
- \* Teminals: Solder plated, solderable per MIL-STD-750, Method 2026.
- \* Weight: 4 grams (Approximated)

## GBU'fFŁ



Dimensions in inches and (millimeters)

### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive of inductive load. For capacitive load, derate current by 20%

CHARACTERISTICS		SYMBOL	GBU4J-01	GBU4K-01	GBU4M-01	UNIT
Mark Code		SYMBOL	GBU4J	GBU4K	GBU4M	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	600	800	1000	Volts
Maximum RMS Voltage		VRMS	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	600	800	1000	Volts
Maximum Average Forward TC=100°C		I <sub>(AV)</sub>	4.0			Amps
Rectified Output Current at TA=45°C			3.0			
Peak Forward Surge Current 8.3 ms single half sine-wave		IFSM	130			Amps
superimposed on rated load (JEDEC method)						
Rating for fusing (t<8.3ms)		l <sup>2</sup> t	70.1			A <sup>2</sup> sec
Typical Thermal Resistance (Note 2)		RΘJA	19			°C/W
(Note 3)		ROJC	4			
Typical Junction Capacitance (Note 1)		C <sub>J</sub>	45			PF
Operating Temperature Range		TJ	-55 to +150			°C
Storage Temperature Range		T <sub>STG</sub>	-55 to +150			°C
Forward Voltage Range at 4.0A DC		VF	1.1			Volts
Maximum Average Reverse Current at	@TA=25°C	IR	5.0			μAmps
Rated DC Blocking Voltage	@TA=125°C	IK	500			

NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

- 2. Device mounted in free air,no heatsink,P.C.B at 0.375"(9.5MM) lead length with 0.5 x 0.5"(12 x 12MM) copper pads.
- 3. Device mounted on a 2.6 x 1.4' x 0.06' tjick (6.5 x 3.5 x 0.15 cm) AL plate.

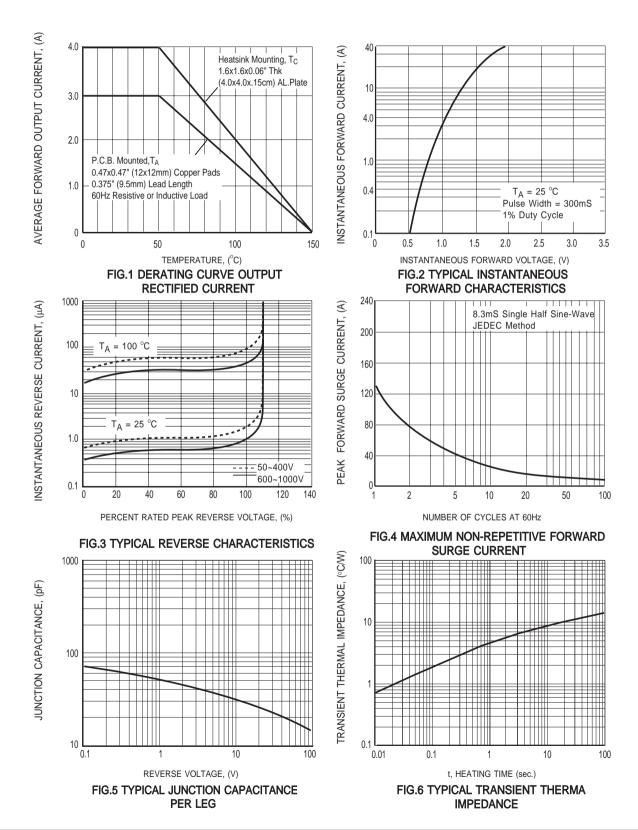




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### RATING AND CHARACTERISTICS CURVES







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# 4 AMPS GLASS PASSIVATED BRIDGE RECTIFIER-600~1000Volts GBU(R) PACKAGE

### **Ordering Information:**

Device PN	Packing		
GBU4x-01 <sup>(3)</sup> - <sup>(1)</sup> G <sup>(2)</sup> -WS	Tube Packing:20pcs/Tube; 1000pcs/Box		

**Note:** 1. Packing code: Empty is Tube Packing

2. RoHS product for packing code suffix "G", Halogen free product for packing code suffix "H".

3. 4:4.0 Amps

x: Voltage Class, J=600V, K=800V, M=1000V

-01: GBU(R) Package

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