



GBU6005 THRU GBU610

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Voltage Range 50 to 1000 Volts
Current 6.0 Amperes

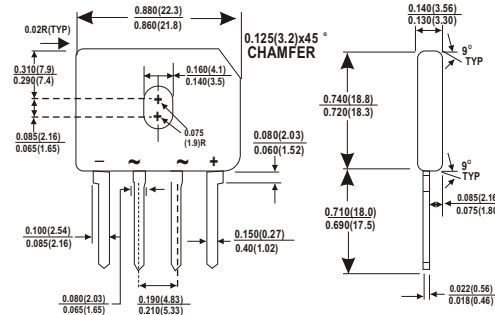
Features

- * UL Recognized File # E228898
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * High case dielectric strength of 1500 VRMS
- * Ideal for printed circuit boards
- * Glass passivated chip junction
- * High surge overload rating
- * High temperature soldering guaranteed:
 250°C / 10 seconds, 0.375 "(9.5mm) lead length,
 5lbs. (2.3kg) tension

Mechanical Data

Case: Molded plastic over passivated junctions
 Terminals: Plated leads solderable per MIL-STD-750 Method 2026 Mounting Position: Any (NOTE 2)
 Mounting Torque: 5 in-lbs max.
 Weight: 4.0 gram

GBU-6



POLARITY SHOWN ON FRONT SIDE OF CASE
 POSITIVE LEAD BY BEVELED CORNER

Dimensions in inches and (millimeters)

Maximum Ratings

Rating at 25°C ambient temperature unless otherwise specified.

Type Number	GBU 6005	GBU 601	GBU 602	GBU 604	GBU 606	GBU 608	GBU 610	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified output Current At T _c =100°C (Note 1)	6.0							Amps
Peak Forward Surge Current single sine-wave super-imposed on rated load (JEDEC method) T _j =150°	175							Amps
Rating for fusing (t<8.3ms)	127							A ² sec
Typical Thermal Resistance per Leg (NOTE 3)	7.4 2.2							°C/W
Operating Junction and Storage Temperature Range	-50 to +150							°C
Maximum Instantaneous Forward Voltage Drop Per Leg at 8.0A	1.0							Volts
Maximum DC Reverse Current at T _a =25°C Rated DC Blocking Voltage per Leg T _a =125°C	10 500							µA
Typical Junction Capacitance per Leg At 4V, 1MHz	50							pF

Notes:

- 1- Units case mounted on 2.6x1.4x0.06" thick (6.5x3.5x0.15cm) Al. Plate heatsink
- 2- Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screws

[Http://www.upm.com.tw](http://www.upm.com.tw)

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RATING AND CHARACTERISTIC CURVES (GBU6005 THRU GBU610)

