

GBU601 THRU GBU607

Single Phase 6.0 AMPS. Glass Passivated Bridge Rectifiers



Voltage Range 50 to 1000 Volts Current 6.0 Amperes

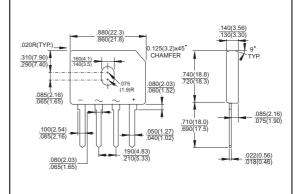
GBU

Features

- ♦ UL Recognized File # E-96005
- ♦ Ideal for printed circuit board
- ♦ Reliable low cost construction
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Surge overload rating to 175 amperes peak
- High temperature soldering guaranteed: 260°C / 10 seconds / .375", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension

Mechanical Data

- ♦ Case: Molded plastic body.
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026.
- ♦ Weight: 0. 3 ounce, 8.0 grams
- Mounting torque: 5 in. lb. max.



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol		GBU	GBU	GBU	GBU	GBU	GBU	Units
		601	602	603	604	605	606	607	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current $@T_C = 100^{\circ}C$	I _(AV)	6.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sne-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	175							Α
Maximum Instantaneous Forward Voltage @ 6.0A	V_{F}	1.0							V
Maximum DC Reverse Current @ $T_A=25^{\circ}$ C at Rated DC Blocking Voltage @ $T_A=125^{\circ}$ C	I_{R}	5.0 500							uA uA
Typical Thermal Resistance (Note 1, 2)	$R heta_{JA} \ R heta_{JC}$	7.0 2.0							°C/W
Typical Junction Capacitance (Note 3)	Cj		2	11			94		pF
Operating Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	T _{STG}	-55 to + 150							ပ္

- Notes: 1. Mounted on Al. Plate Heatsink of 2" x 3" x 0.25"
 - 2. Bolt on Heatsink with silicone Thermal Compound for Maximum Heat Transfer with #6 Screws.
 - 3. Measured at 1.0 MHZ and Applied Reverse Voltage of 4.0 Volts.



RATINGS AND CHARACTERISTIC CURVES (GBU601 THRU GBU607)

