

GBU4005 THRU GBU410 <u>SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIER</u>



REVERSE VOLTAGE: FORWARD CURRENT:

50 to 1000 VOLTS 4.0 AMPERE

FEATURES

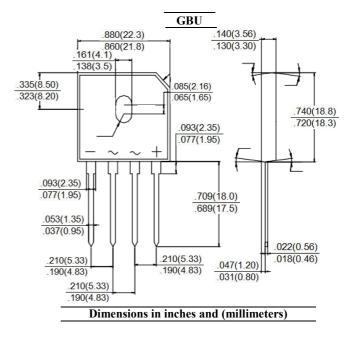
- · Ideal for printed circuit board
- · Reliable low cost construction utilizing molded plastic technique
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- · Plastic material has Underwriters Laboratory Flammability
- · Classification 94V-0
- · High surge current capability
- · High case dielectric strength of 1500VRMS
- · High temperature soldering guaranteed: 260°C/10s/.375",

(9.5mm)lead lengths at 5 lbs.,(2.3kg) tension.

MECHANICAL DATA

Case: Molded plastic, GBU Epoxy: UL 94V-O rate flame retardant

Terminals: Pure tin plated, lead free, Leads solderable per MIL-STD-202, method 208 guaranteed Mounting position: As marking Weight: 4.0gram



Maximum Ratings and Electrical Characteristics

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

	Symbols	GBU4005	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current @ T _c =100°C	I _(AV)				4.0				Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I _{FSM} 150							Amp	
superimposed on rated load (JEDEC method)									
Maximum Instantaneous@2.0VForward Voltage@4.0V	V _F	1.0 1.1							Volts
Maximum Reverse Current at TA=25°C	т	5.0							uAmp
at Rated DC Blocking Voltage T _A =125°C	I _R	500							
Typical Junction Capacitance (Note 3)	CJ	100 45						pF	
Typical Thermal Resistance (Note 2)	R _{0JA}	20							°C/W
Typical Thermal Resistance (Note 1)	R _{0JC}	4.0							°C/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150						ĉ	

NOTES: 1- Unit case mounted on 1.6 x 1.6 x 0.06" thick (4.0 x 4.0 x 0.15cm) Al. Plate

2- Units mounted on P.C.B. with 0.5 x 0.5" (12 x 12mm) copper pads and 0.375" (9.5mm) lead length .

3- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

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RATINGS AND CHARACTERISTIC CURVES

