



GBU35005 THRU GBU3510 GLASS PASSIVATED BRIDGE RECTIFIERS



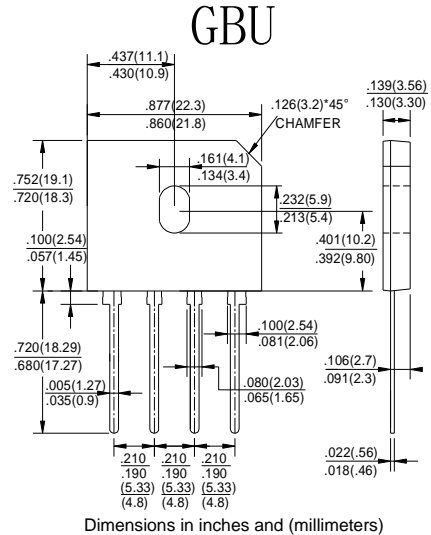
Reverse Voltage - 50 to 1000 Volts
Forward Current - 35.0 Amperes

FEATURES

- ◇ Rating to 1000V PRV
- ◇ Ideal for printed circuit board
- ◇ Low forward voltage drop, high current capability
- ◇ Reliable low cost construction utilizing molded plastic technique
- ◇ Plastic material has U/L flammability classification 94V-0

MECHANICAL DATA

- ◇ **Case:** Molded plastic body
- ◇ **Lead:** Solder plated
- ◇ **Polarity:** As marked



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

CHARACTERISTICS	SYMBOL	GBU 35005	GBU 3501	GBU 3502	GBU 3504	GBU 3506	GBU 3508	GBU 3510	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	30	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°C (with heatsink Note 1) (without heatsink)	I <sub(av)< sub=""></sub(av)<>	35.0 5							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	400							A
Maximum Forward Voltage at 17.5A DC	V _F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T _J =25°C @ T _J =125°C	I _R	10.0 500							uA
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

NOTES: 1. Device mounted on 300mm*300mm*1.6mm cu plate heatsink.



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RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

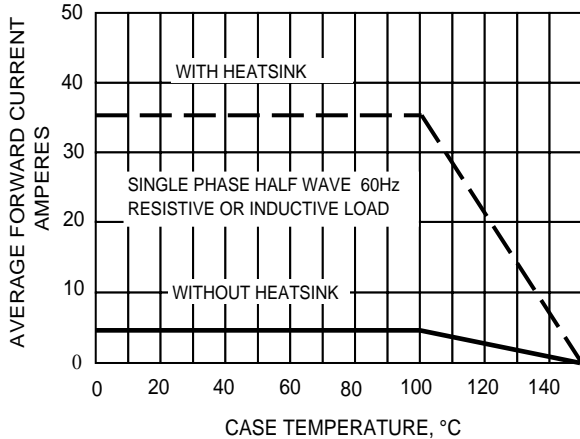


FIG.2-MAXMUN NON-REPETITIVE SURGE CURRENT

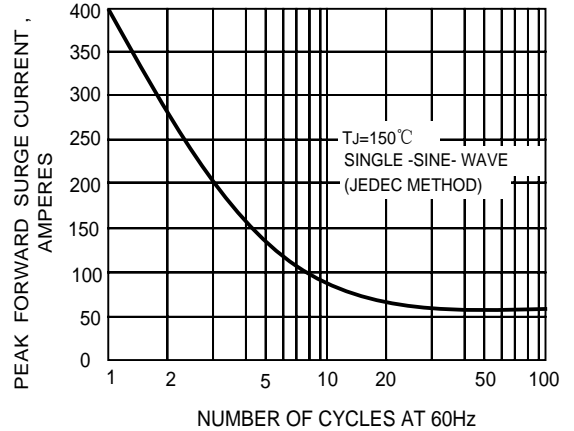


FIG.3-TYPICAL REVERSE CHARACTERISTICS

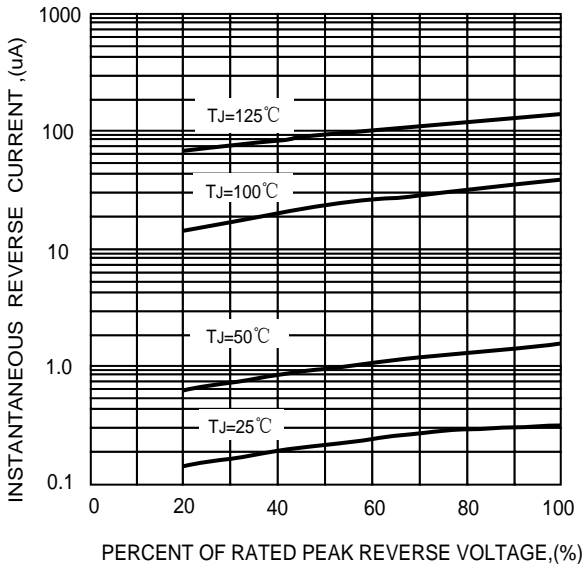
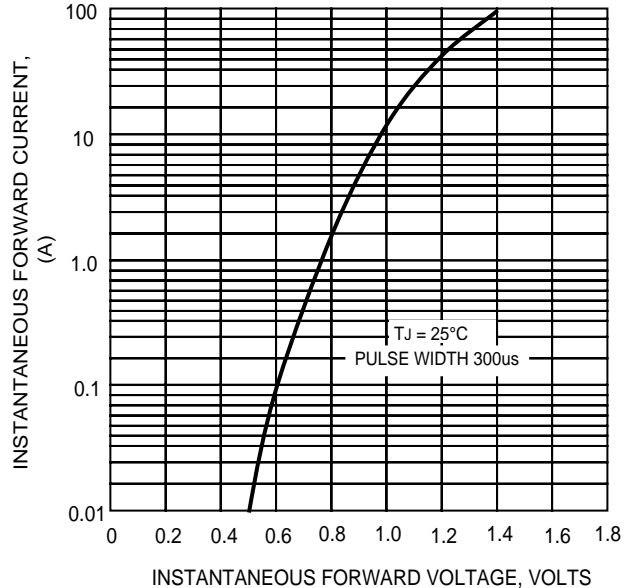


FIG.4-TYPICAL FORWARD CHARACTERISTICS



Device	Package	Shipping
GBU30005-GBU3010	GBU	500 Units/Box