

GBU8005 thru GBU810

REVERSE VOLTAGE - 50 to 1000 Volts
FORWARD CURRENT - 8.0 Amperes

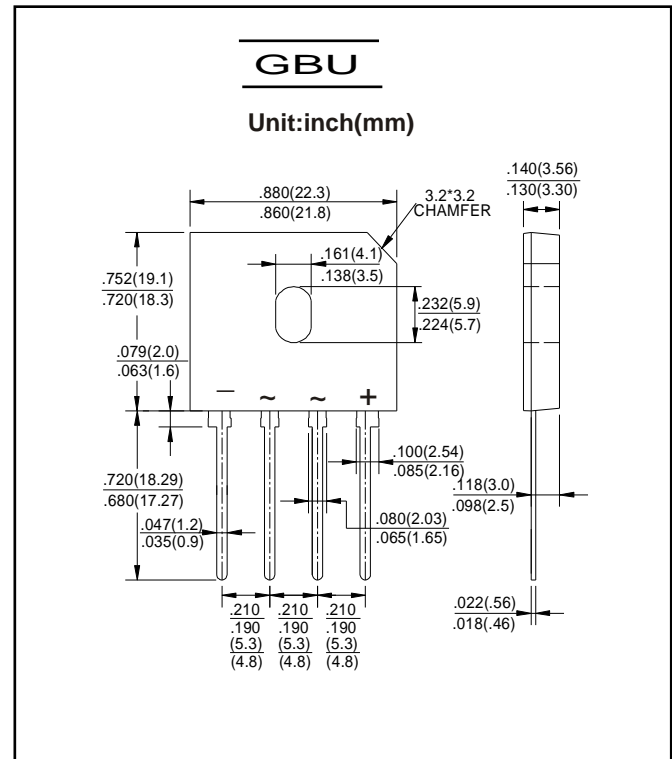
GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- Electrically isolated base-1500 Volts

MECHANICAL DATA

- Polarity : Symbols molded on body
- Weight : 0.15 ounces, 4.0 grams
- Mounting position : Any



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, derate current by 20%

CHARACTERISTICS	SYMBOL	GBU 8005	GBU 801	GBU 802	GBU 804	GBU 806	GBU 808	GBU 810	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	100	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @Tc=100°C (without heatsink)	I(AV)					8.0			A
						3.2			
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM					200			A
Maximum forward Voltage at 4.0A DC	VF					1.0			V
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=125°C	IR					5.0			uA
						500			
I ² t Rating for fusing (t < 8.3ms)	I ² t					166			A ² S
Typical Junction Capacitance per element (Note 1)	CJ					60			pF
Typical Thermal Resistance (Note 2)	RθJC					2.2			°C/W
Operating Temperature Range	TJ					-55 to +150			°C
Storage Temperature Range	TSTG					-55 to +150			°C

NOTES : 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Device mounted on 100mm x 100mm x 1.6mm Cu Plate Heatsink.

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FIG.1-FORWARD CURRENT DERATING CURVE

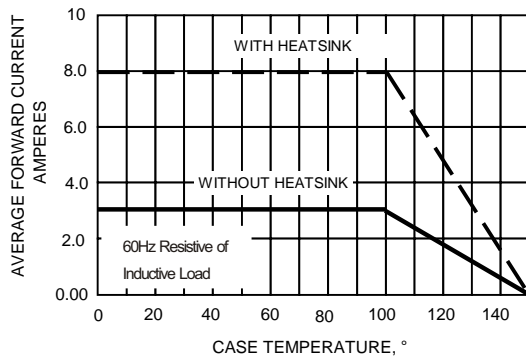


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

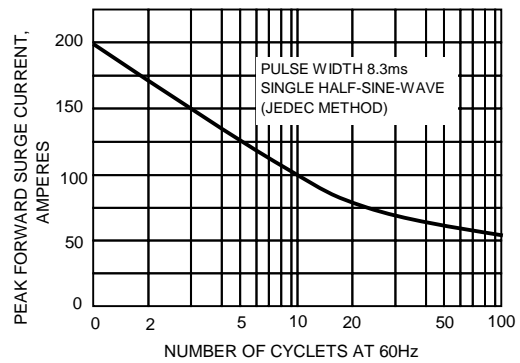


FIG.3-TYPICAL JUNCTION CAPACITANCE

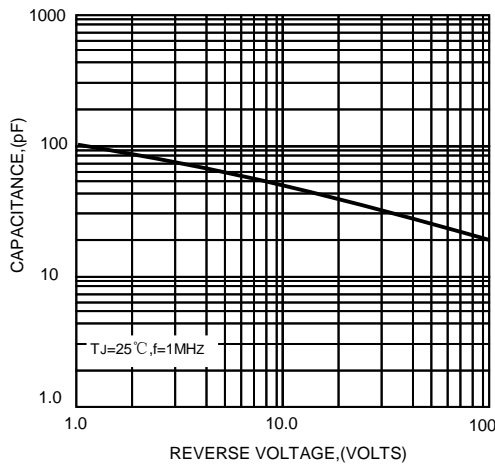


FIG.4-TYPICAL FORWARD CHARACTERISTICS

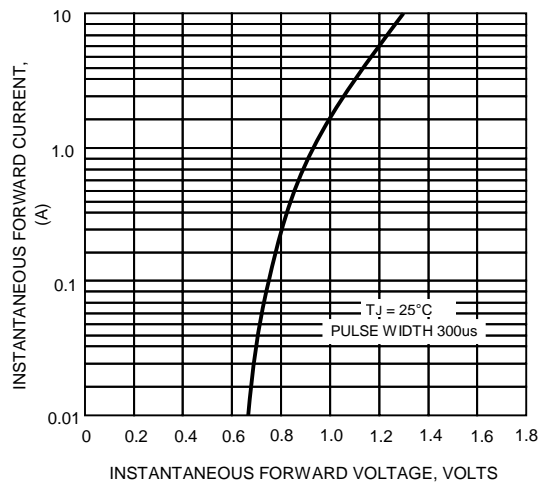
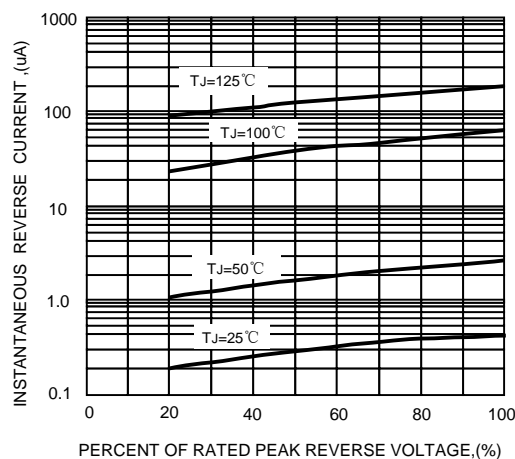


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.