

GBU8005 THRU GBU810

BRIDGERECTIFIERS

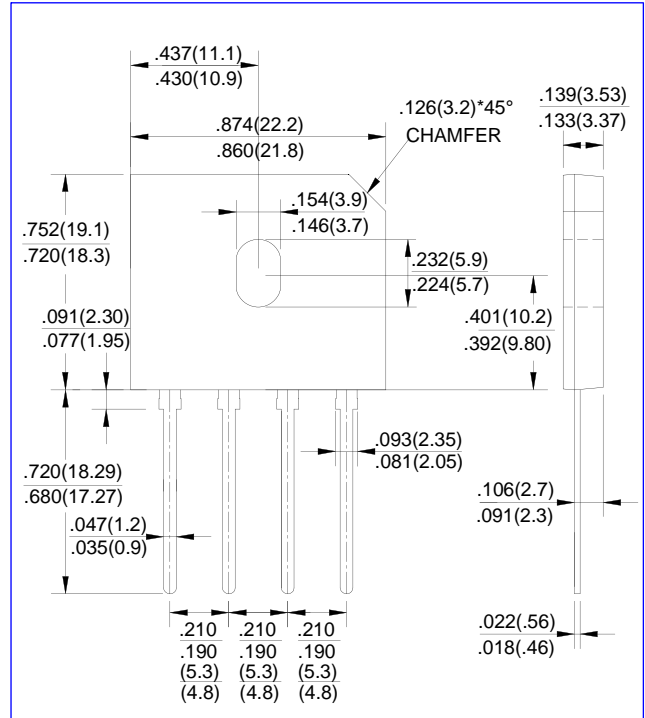


VOLTAGE 50 THRU 1000 Volts **CURRENT** 8.0 Amperes

GBU Unit:(mm)

FEATURES

- Surge overload rating -200 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L the flammability classification 94V-0
- Mounting position:Any
- Weight: 0.138 ounces , 3.9 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C(UNLESS OTHERWISE NOTED))

CHARACTERISTICS	SYMBOL	GBU8005	GBU801	GBU802	GBU804	GBU806	GBU808	GBU810	UNIT	
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 (with heatsink Note 2) @ T _C =100 (without heatsink)	I <sub(av)< sub=""></sub(av)<>					8.0				A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}					200				A
Maximum Forward Voltage at 4.0A DC	V _F					1.1				V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T _J =25 @ T _J =125	I _R					10.0				uA
I ² t Rating for Fusing (t<8.3ms)	I ² t					166				A ² s
Typical Junction Capacitance Per Element (Note1)	C _J					60				pF
Typical Thermal Resistance (Note2)	R _{JC}					2.2				/W
Operating Temperature Range	T _J					-55 to +150				
Storage Temperature Range	T _{STG}					-55 to +150				

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Device mounted on 75mm*75mm*1.6mm cu plate heatsink.

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RATING AND CHARACTERISTIC CURVES (TA=25°C (UNLESS OTHERWISE NOTED))

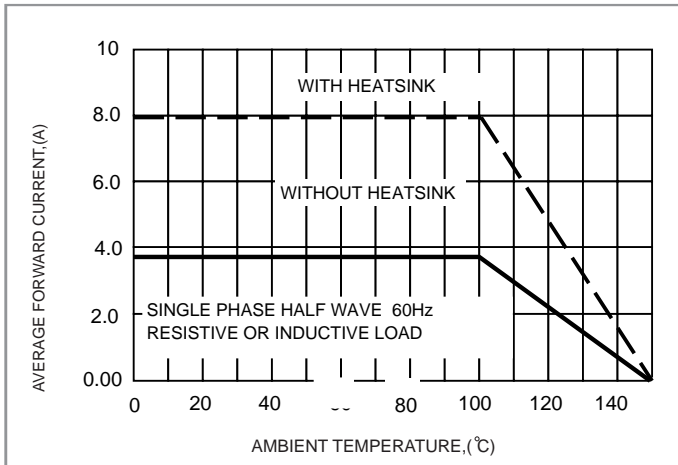


Fig. 1- FORWARD CURRENT DERATING CURVE

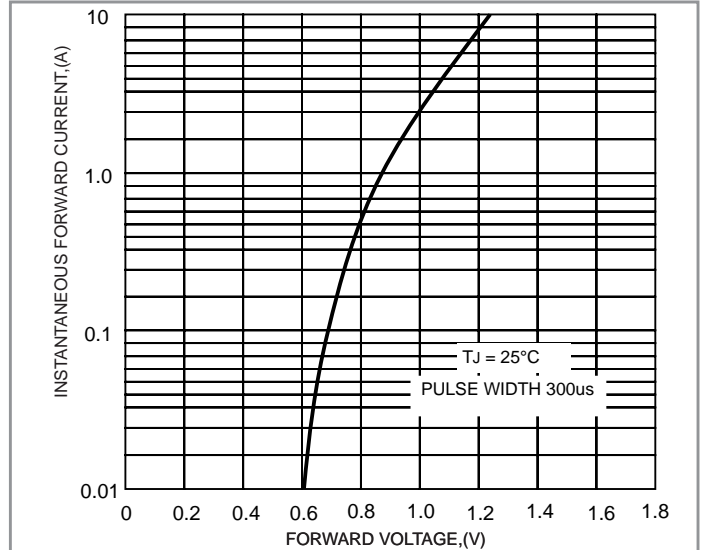


Fig. 2-TYPICAL INSTANTANEOUS FORWARD

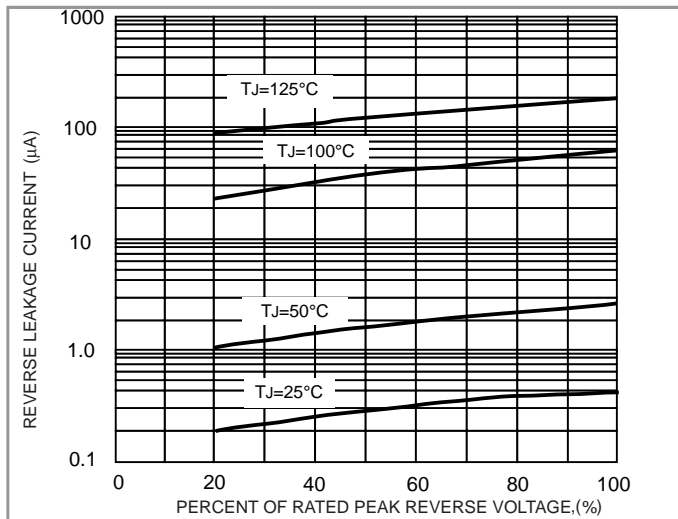


Fig. 3 TYPICAL REVERSE CHARACTERISTICS

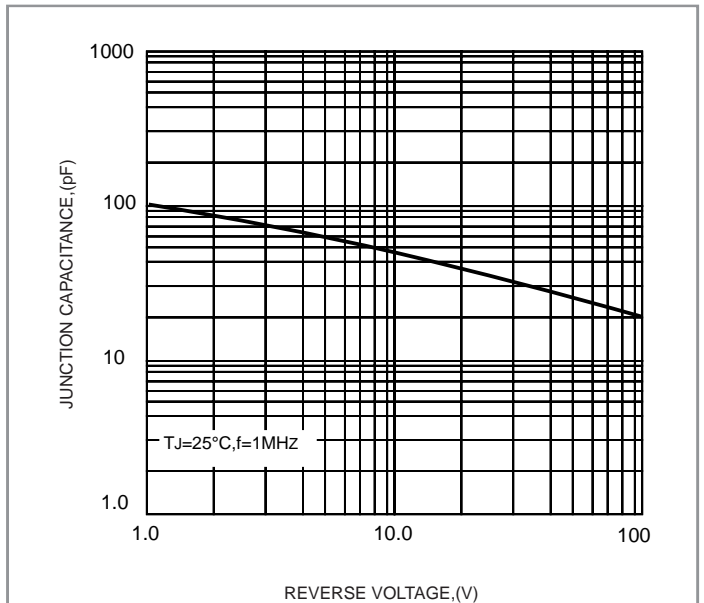


Fig. 4 TYPICAL JUNCTION CAPACITANCE

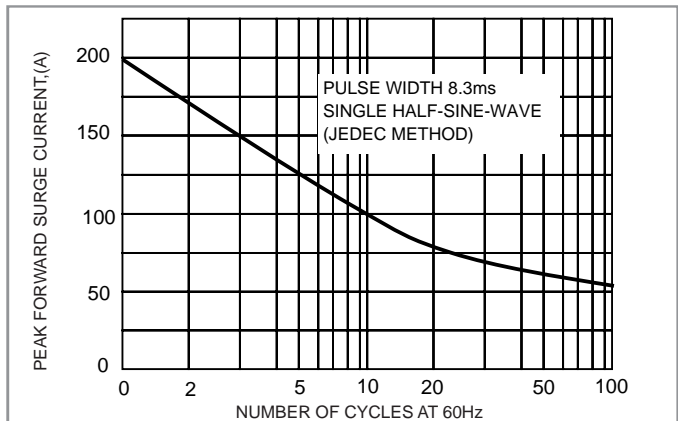


Fig. 5- MAXIMUM NON - REPETITIVE SURGE CURRENT