

GBU4A/6A/8A SERIES

Single Phase 4.0/6.0/8.0 AMPS. Glass Passivated Bridge Rectifiers
 Voltage Range 50 to 1000 Volts Current 4.0/6.0/8.0 Amperes

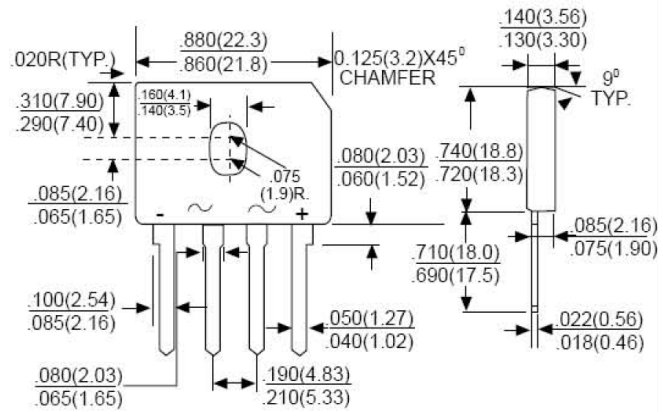
FEATURES

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction
- ◆ Plastic material has underwriters Laboratory Flammability Classification 94V-0
- ◆ Surge overload rating to 150 amperes peak
- ◆ High temperature soldering guaranteed:
250°C / 10 seconds / 0.375" (9.5mm)
lead length at 5 lbs., (2.3 kg) tension
- ◆ UL Recognized File number: E347215

MECHANICAL DATA

- ◆ Case: Molded plastic body
- ◆ Terminals: Leads solderable per MIL-STD-750, Method 2026
- ◆ Weight: 0.3ounce, 8.0grams
- ◆ Ideal for printed circuit board

GBU



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

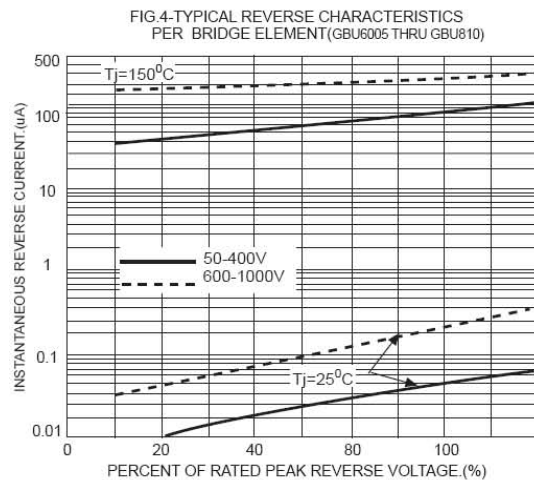
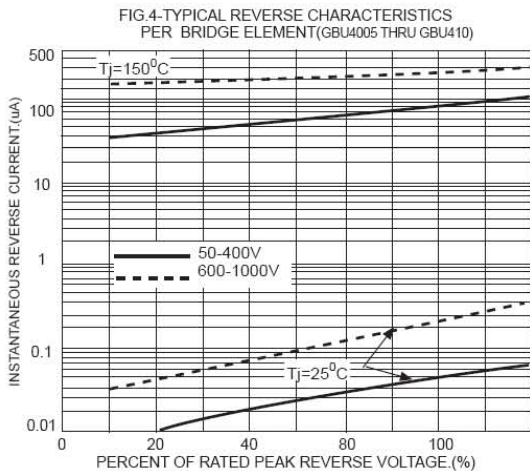
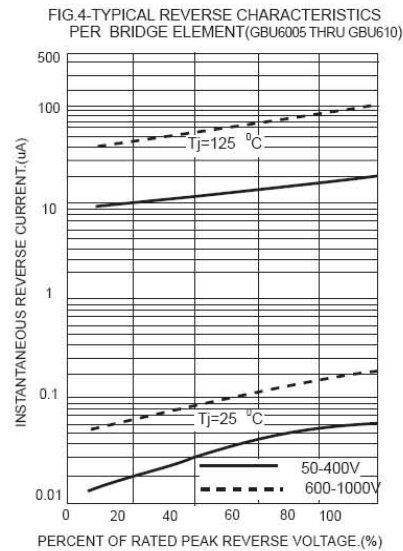
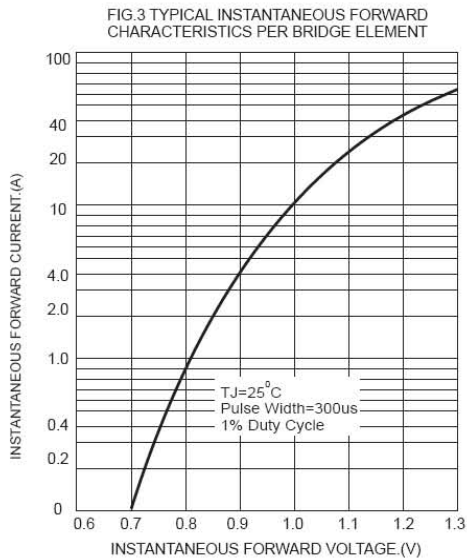
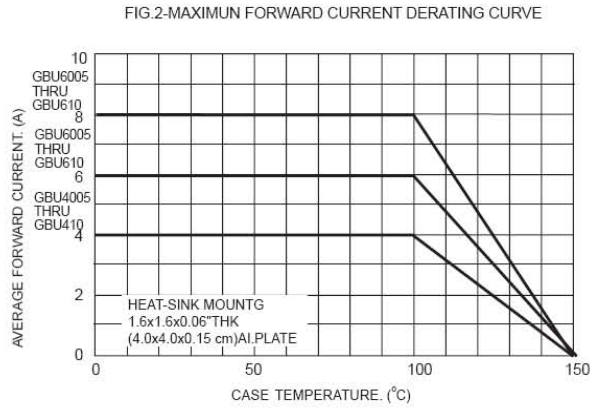
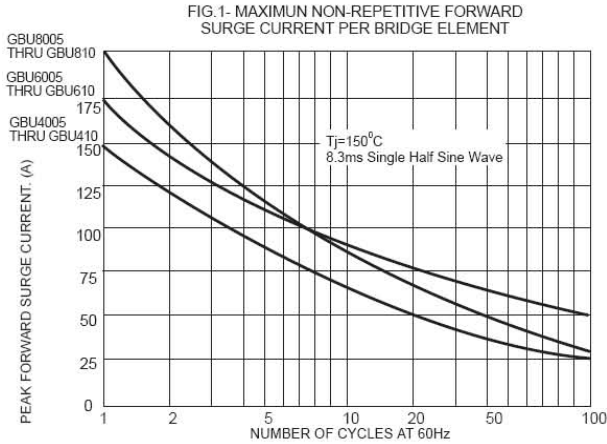
Type Number		GBU 4005	GBU 6005	GBU 8005	GBU 401	GBU 601	GBU 801	GBU 402	GBU 602	GBU 802	GBU 404	GBU 604	GBU 804	GBU 406	GBU 606	GBU 806	GBU 408	GBU 608	GBU 808	UNITS	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000													V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	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 = 50°C	I _{F(AV)}	4.0/6.0/8.0																		A	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150/175/200																		A	
Maximum Instantaneous Forward Voltage Drop Per leg @4.0A/6.0A/8.0A	V _F	1.1																		V	
Maximum DC Reverse Current @T _A = 50°C	I _R	5.0																		μA	
at Rated DC Blocking voltage @T _A = 125°C		500																		μA	
Typical Thermal Resistance (Note1) (Note2)	R _{θJA} R _{θJC}	20/7.0/21.0/4.0																		°C/W	
Typical Thermal Resistance (Note3)	R _{θJC}	100/211/211						45/94/94												pF	
Operating Temperature Range	T _J	-55 to +150																		°C	
Storage Temperature Range	T _{STG}	-55 to +150																		°C	

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RATING AND CHARACTERISTIC CURVES GBU4A/6A/8A SERIES



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