

Features:

- Rating to 1,000V PRV
- Surge Overload Rating to 200A Peak
- Ideal for Printed Circuit Board
- Reliable Low Cost Construction Utilizing Moulded Plastic Technique Results in Inexpensive Product
- Lead Solderable per MIL-STD-202 Method 208
- Glass Passivated Junctions

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 by 20%.

Characteristics	Symbol	GBU810	Units
Maximum recurrent peak reverse voltage	V_{RRM}	1,000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC blocking voltage	V_{DC}	1,000	V
Maximum average forward output current at $T_C=100^\circ\text{C}$	$I_{F(AV)}$	8	A
Peak forward surge current 8.3ms single half-sine-wave Super imposed on rated load	I_{FSM}	200	A
Maximum instantaneous forward voltage at 4A	V_F	1	V
Maximum reverse current at $T_A = 25^\circ\text{C}$ At rated DC blocking voltage at $T_A = 100^\circ\text{C}$	I_R	10 1	μA mA
Storage and Operating junction temperature range	T_J, T_{STG}	-50 to +150	$^\circ\text{C}$

FIG.5 – TYPICAL JUNCTION CAPACITANCE PER ELEMENT

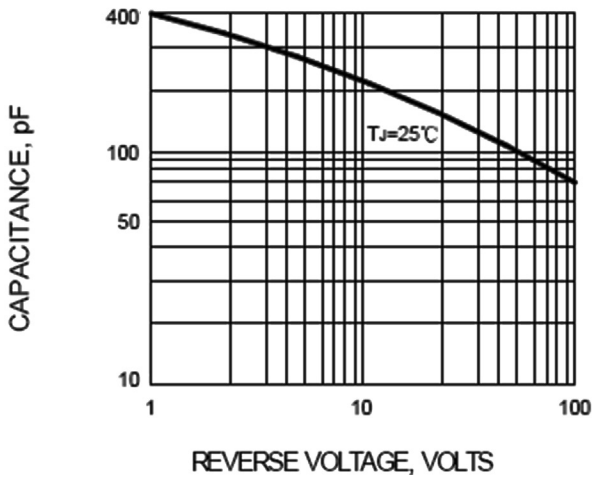


FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE

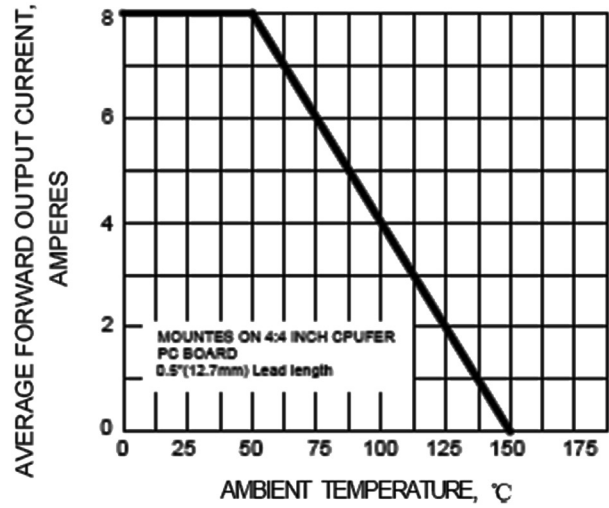


FIG.2 – MAXIMUM FORWARD SURGE CURRENT

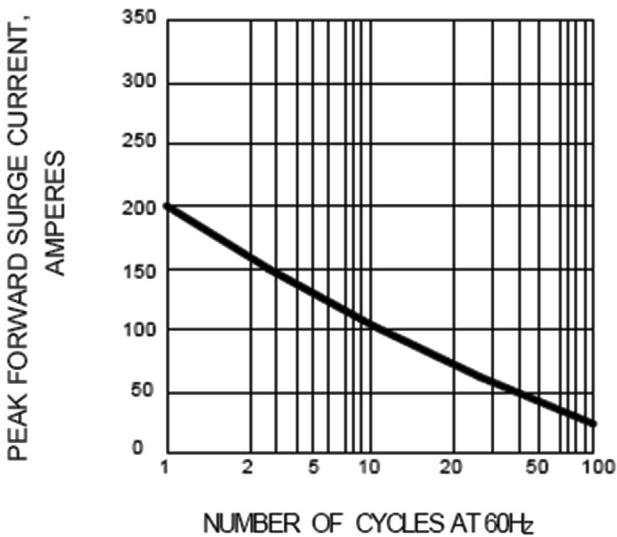


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

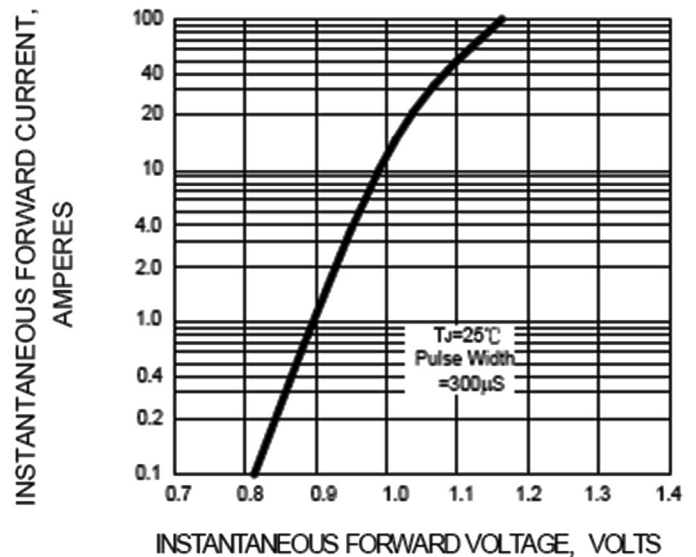
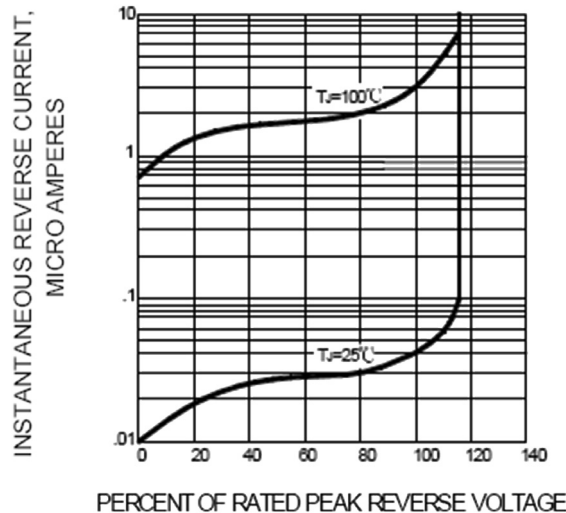
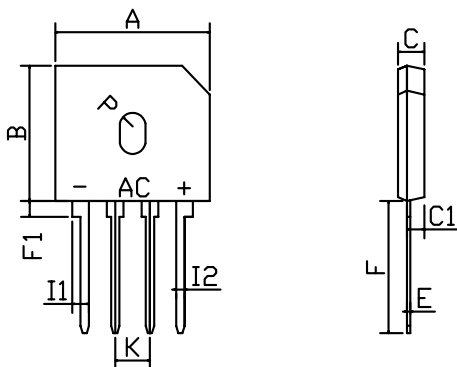


FIG.4 – TYPICAL REVERSE CHARACTERISTIC



Package Outline Dimensions:



GBU		
Dim	Min	Max
A	22	22.4
B	18.4	18.8
C	3.4	3.95
C1	2.5	3
E	0.4	0.6
F	17 min	
F1	1.7	2.3
I1	2.3	2.6
I2	0.95	1.25
K	4.7	5.3
P	1.9 Typical	
All Dimensions in mm		

Package Information

Device	Package	Shipping
GBU810	GBU	500 Units/Box

Part Number Table

Description	Part Number
Silicon Bridge Rectifier	GBU810

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