Silicon Bridge Rectifiers *GBU8005--GBU810*

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 200 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded
- plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208
- Glass passivated junctions

Pb
Lead-free

Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	GBU8005	GBU801	GBU802	GBU804	GBU806	GBU808	GBU810	UNITS
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 Output current @T_C=100℃	$I_{F(AV)}$	8.0							A
Peak forward surge current 8.3ms single half-sine-wav superimposed on rated load	I_{FSM}	200							A

Thermal Characteristics

Characteristic	Symbol	GBU8005	GBU801	GBU802	GBU804	GBU806	GBU808	GBU810	UNITS
Operating junction temperature range	T_J	- 55 ---- + 150							℃
Storage temperature range	T_{STG}	- 55 ---- + 150							℃

Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	GBU8005	GBU801	GBU802	GBU804	GBU806	GBU808	GBU810	UNITS
Maximum instantaneous forward voltage @4.0A	V_F	1.0							V
Maximum reverse current @T_A=25 ℃	I_R	10.0							μ A
at rated DC blocking voltage @T_A=100℃		1.0							mA

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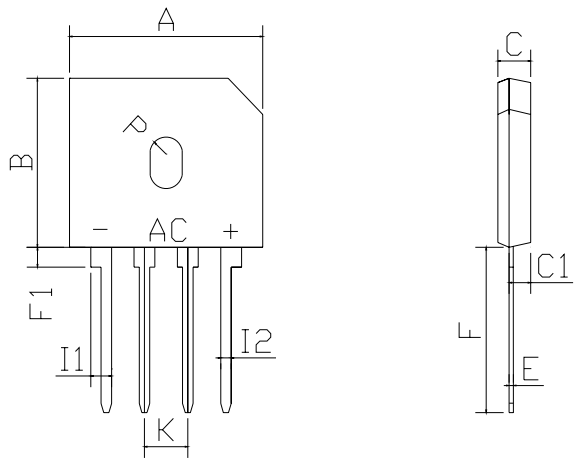
PACKAGE OUTLINE DIMENSIONS



GBU		
Dim	Min	Max
A	22.00	22.40
B	18.40	18.80
C	3.40	3.95
C1	2.50	3.00
E	0.40	0.60
F	17.00min	
F1	1.70	2.30
I1	2.30	2.60
I2	0.95	1.25
K	4.70	5.30
P	R1.9ypical	
All Dimensions in mm		

PACKAGE INFORMATION

Device	Package	Shipping
GBU8005--GBU810	GBU	500 Units/Box

Silicon Bridge Rectifiers

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FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE

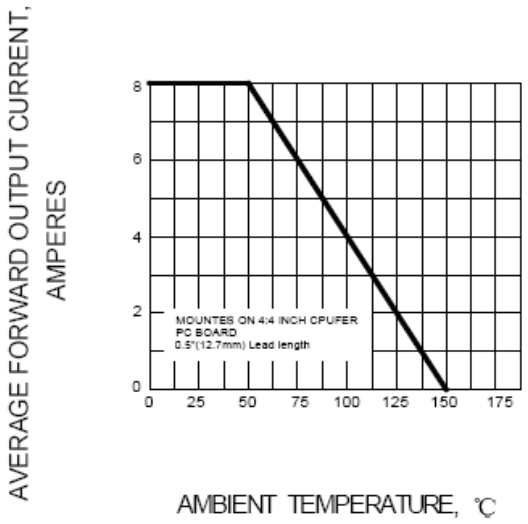

FIG.2 – MAXIMUM FORWARD SURGE CURRENT

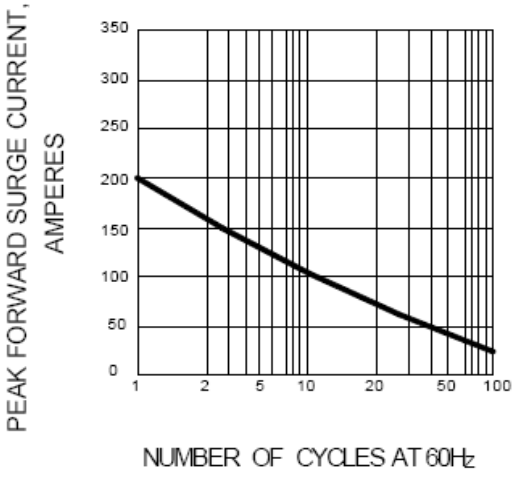

FIG.3 – TYPICAL FORWARD CHARACTERISTIC

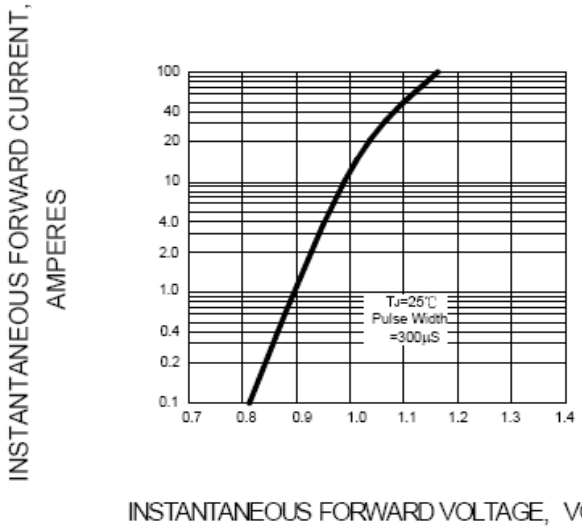

FIG.4 – TYPICAL REVERSE CHARACTERISTIC

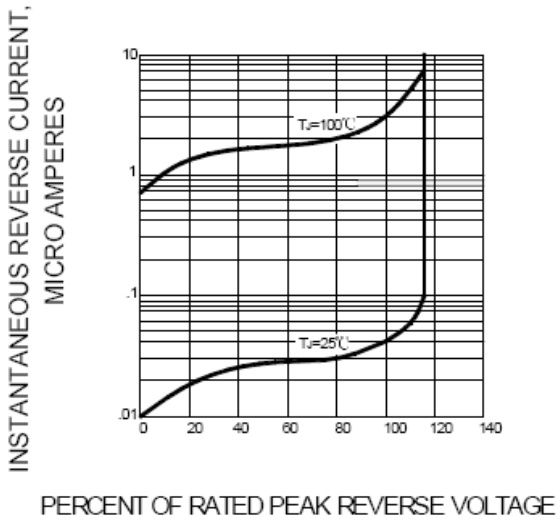

FIG.5 – TYPICAL JUNCTION CAPACITANCE PER ELEMENT