

10 Amps Single Phase Silicon Bridge



GBU10005-GBU1010

Features:

- ☐ High surge current capability
- ☐ Ideal for printed circuit boards
- ☐ Plastic package has Underwriters Laboratory Flammability Classification 94V-0

GBU



Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	GBU 10005	GBU 1001	GBU 1002	GBU 1004	GBU 1006	GBU 1008	GBU 1010	Unit
Maximum Reverse Peak Repetitive Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current, @ Ta=50°C	I _(AV)	10.0							A
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I _{FSM}	350							
Rating for fusing (t < 8.3ms)	I ² t	200							A ² s
Maximum Reverse Current @ rated V _R T _j = 25°C T _j = 125°C	I _R	10 500							µA
Maximum Forward Voltage @ 10.0 A	V _F	1.1							V
Typical Thermal Resistance	R _{θJA}	17							°C/W
Typical Junction Capacitance @V _R = 4.0 V, f = 1.0 MHz	C _j	70							pF
Operating and Storage Temperature Range	T _j , T _{stg}	-55 to +150							°C

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Typical Characteristics

FIG.1-FORWARD CURRENT DERATING CURVE

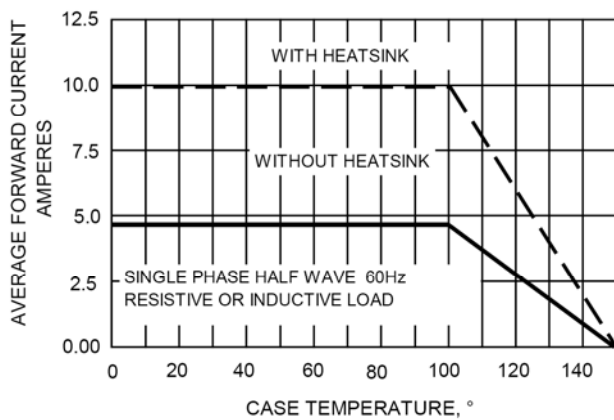


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

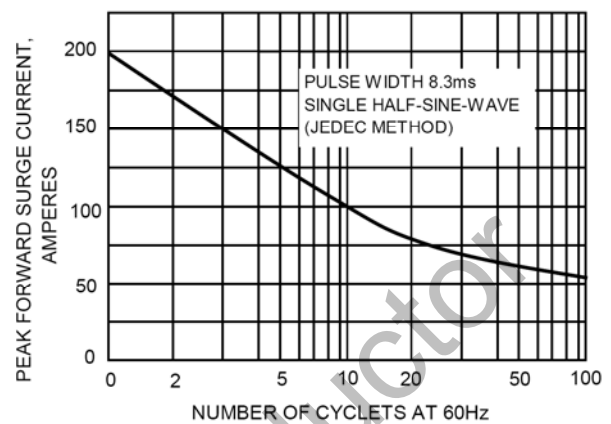


FIG.3-TYPICAL JUNCTION CAPACITANCE

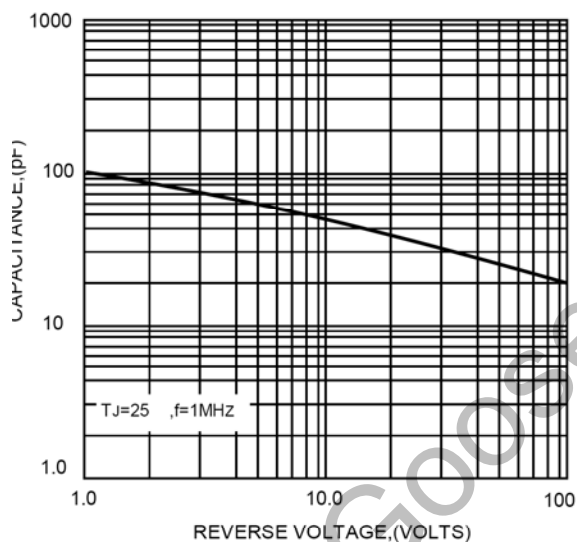


FIG.4-TYPICAL FORWARD CHARACTERISTICS

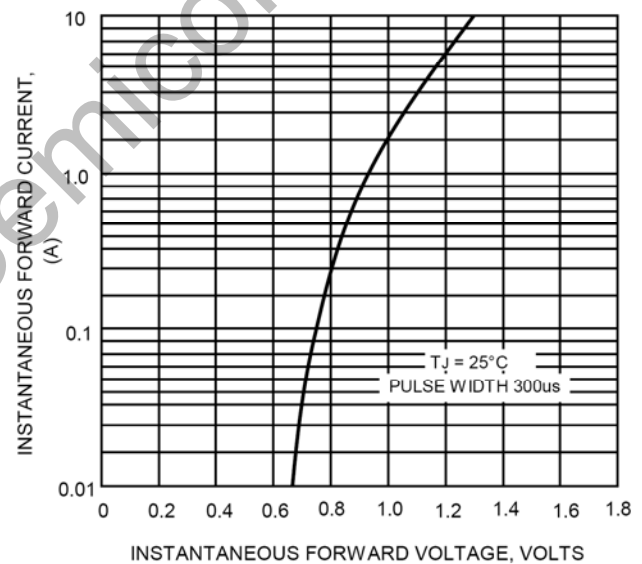
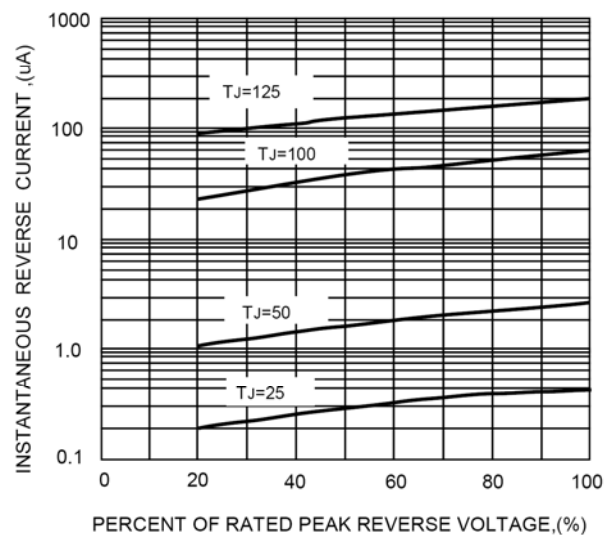
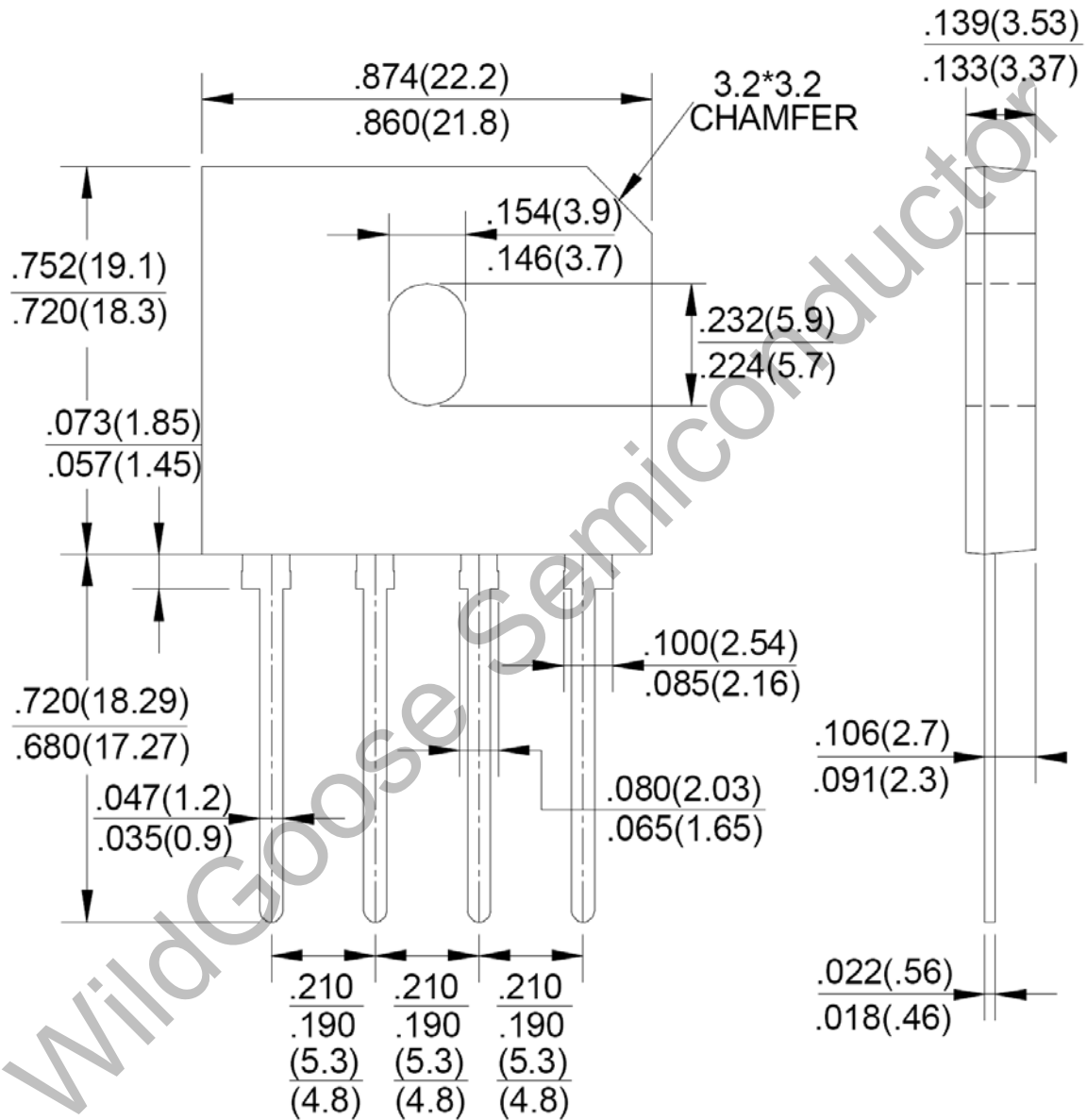


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Package Dimension**GBU**

Dimensions in inches and (millimeters)