

15 Amps Single Phase Silicon Bridge



GBU15005-GBU1510

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 15005	GBU 1501	GBU 1502	GBU 1504	GBU 1506	GBU 1508	GBU 1510	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℃	I _(AV)	15.0							A
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I _{FSM}	240							
Rating for fusing (t < 8.3ms)	I ² t	239							A ² s
Maximum Reverse Current @ rated V _R T _j = 25℃ T _j = 125℃	I _R	10 500							μA
Maximum Forward Voltage @ 15.0 A	V _F	1.1							V
Typical Thermal Resistance	R _{θJA}	8							℃/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							℃

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Typical Characteristics

Fig. 1 - Forward Current Derating Curve

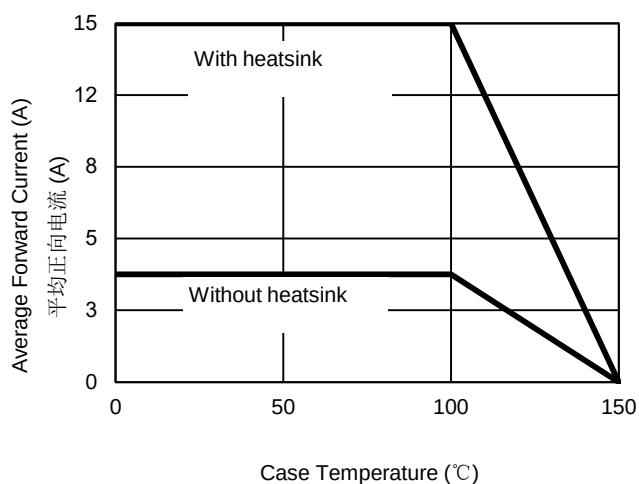


Fig. 2 - Maximum Non-Repetitive Surge Current

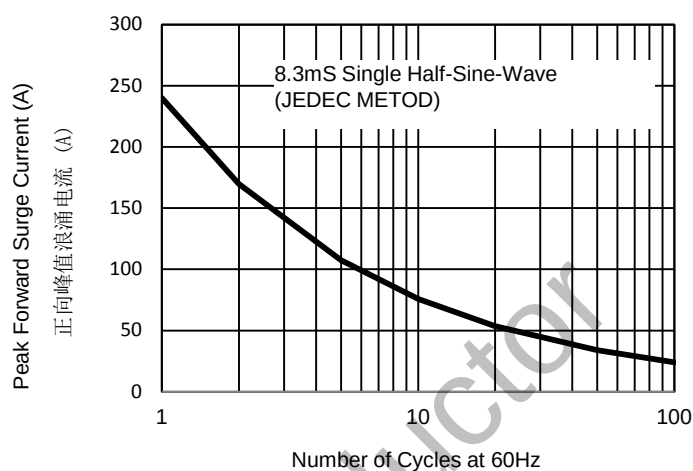


Fig. 3 - Typical Reverse Characteristics

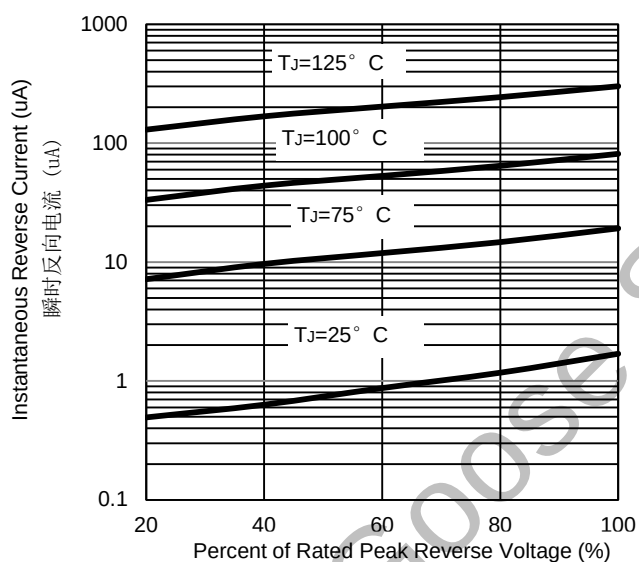


Fig. 4 - Typical Forward Characteristics

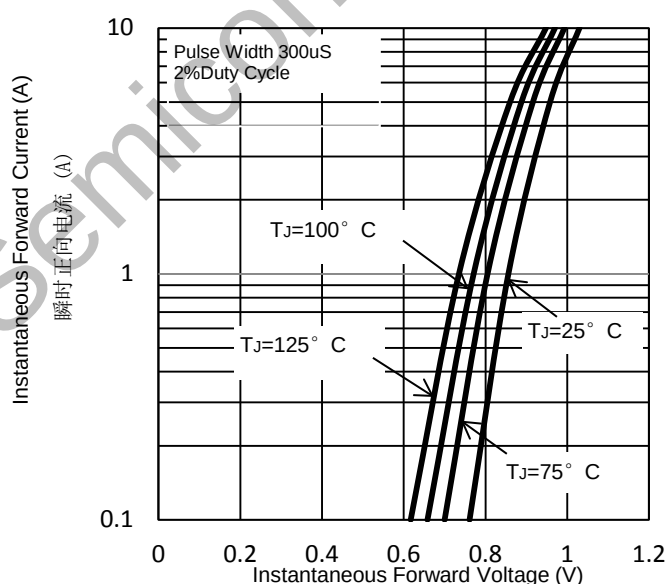
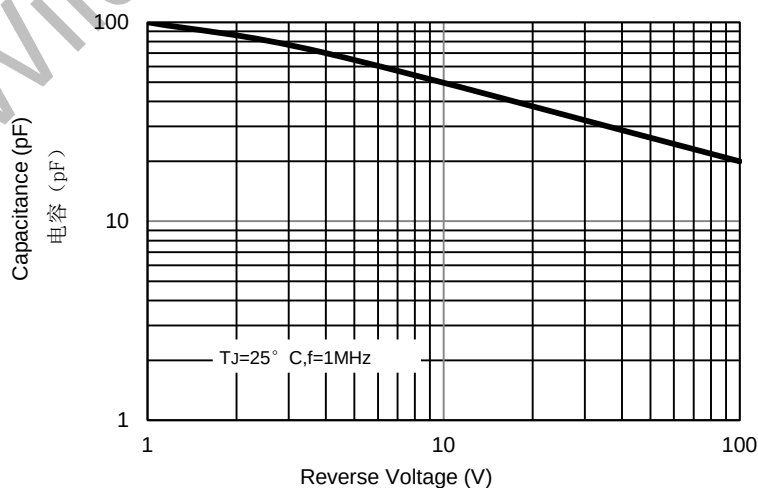
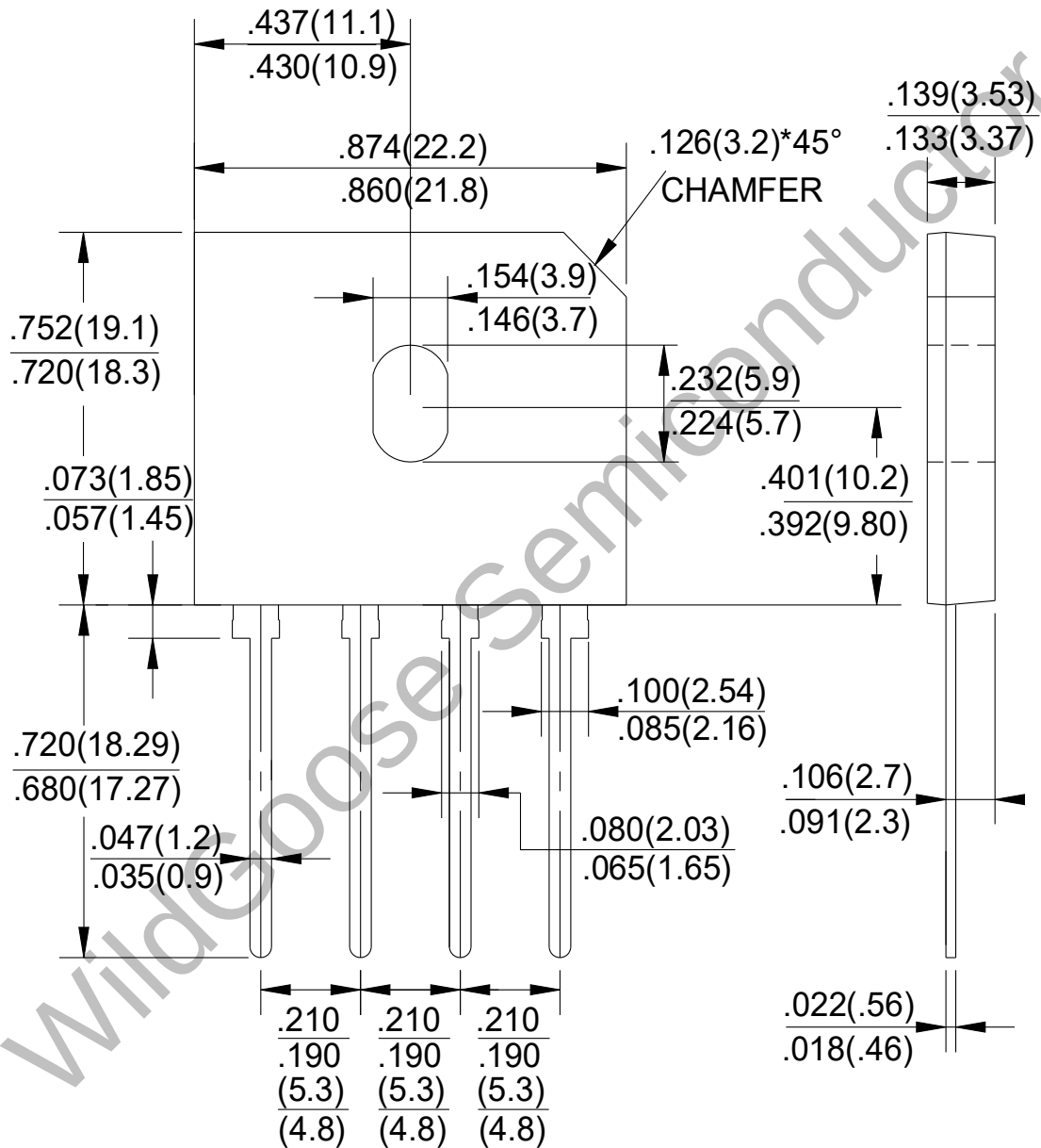


Fig. 5 - Typical Junction Capacitance



Package Dimension**GBU**

Dimensions in inches and (millimeters)