




4 Amps Single Phase Silicon Bridge

 <p>GBU4005-GBU410</p> <p>Features:</p> <ul style="list-style-type: none"> <input type="checkbox"/> High surge current capability <input type="checkbox"/> Ideal for printed circuit boards <input type="checkbox"/> Plastic package has Underwriters Laboratory Flammability Classification 94V-0 	<p style="text-align: center;">GBU</p>   <p style="text-align: center;">- ~ ~ +</p>
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Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	GBU 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	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	$I_{(AV)}$	4.0							A
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I_{FSM}	150							
Rating for fusing (t < 8.3ms)	I^2t	93							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 @ 4.0 A	V_F	1.0							V
Typical Thermal Resistance	$R_{\theta JA}$	2.2							°C/W
Typical Junction Capacitance @ $V_R = 4.0$ V, f = 1.0 MHz	C_j	45							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

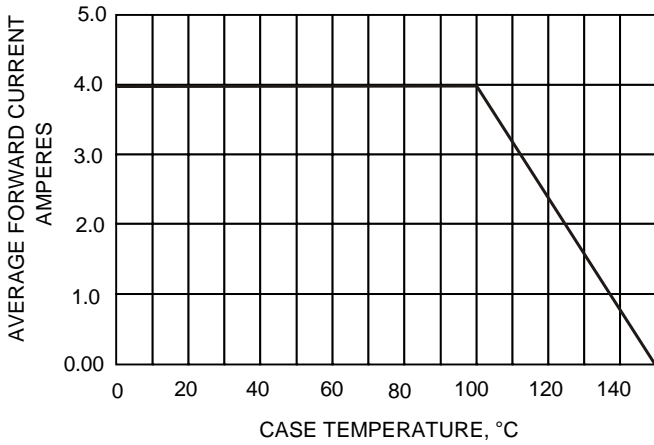


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

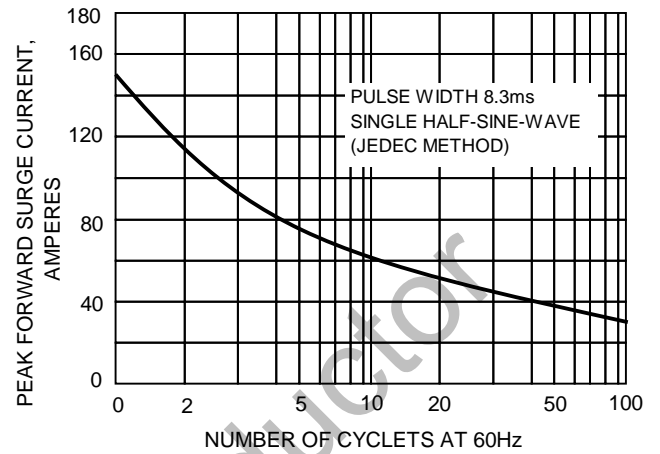


FIG.3-TYPICAL JUNCTION CAPACITANCE

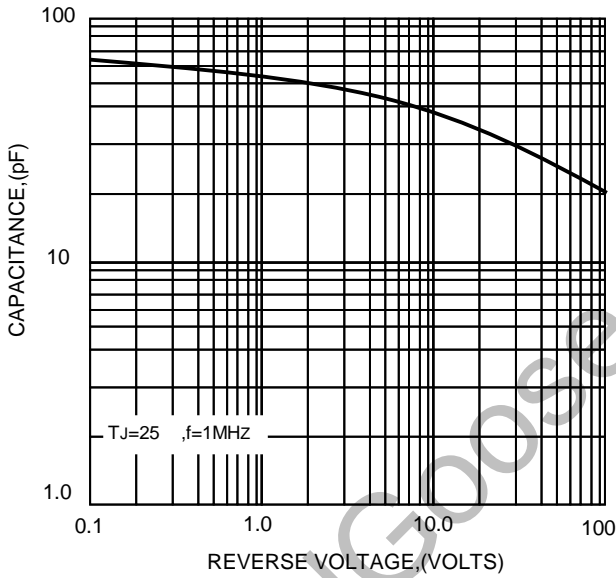


FIG.4-TYPICAL FORWARD CHARACTERISTICS

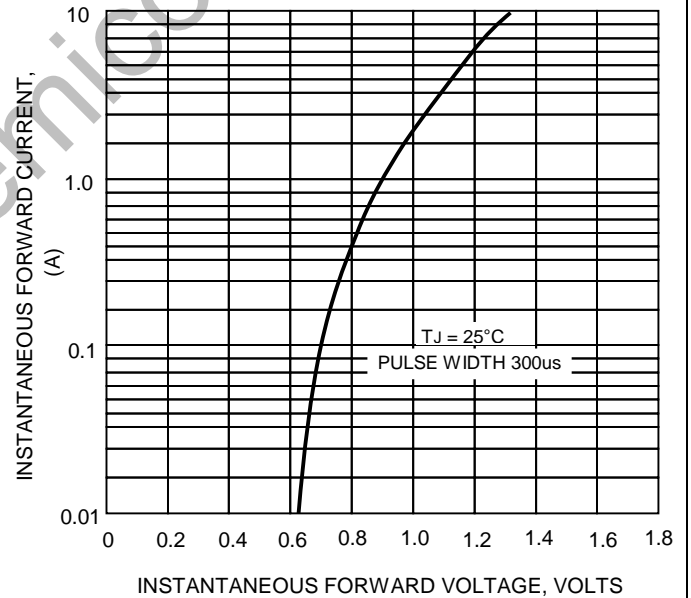
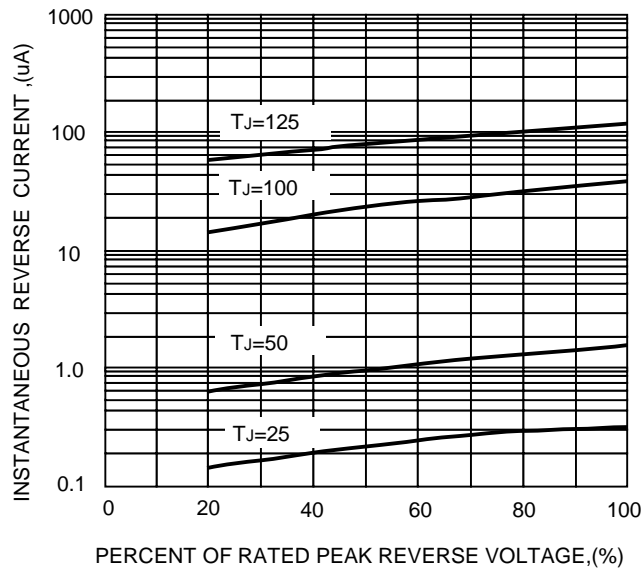
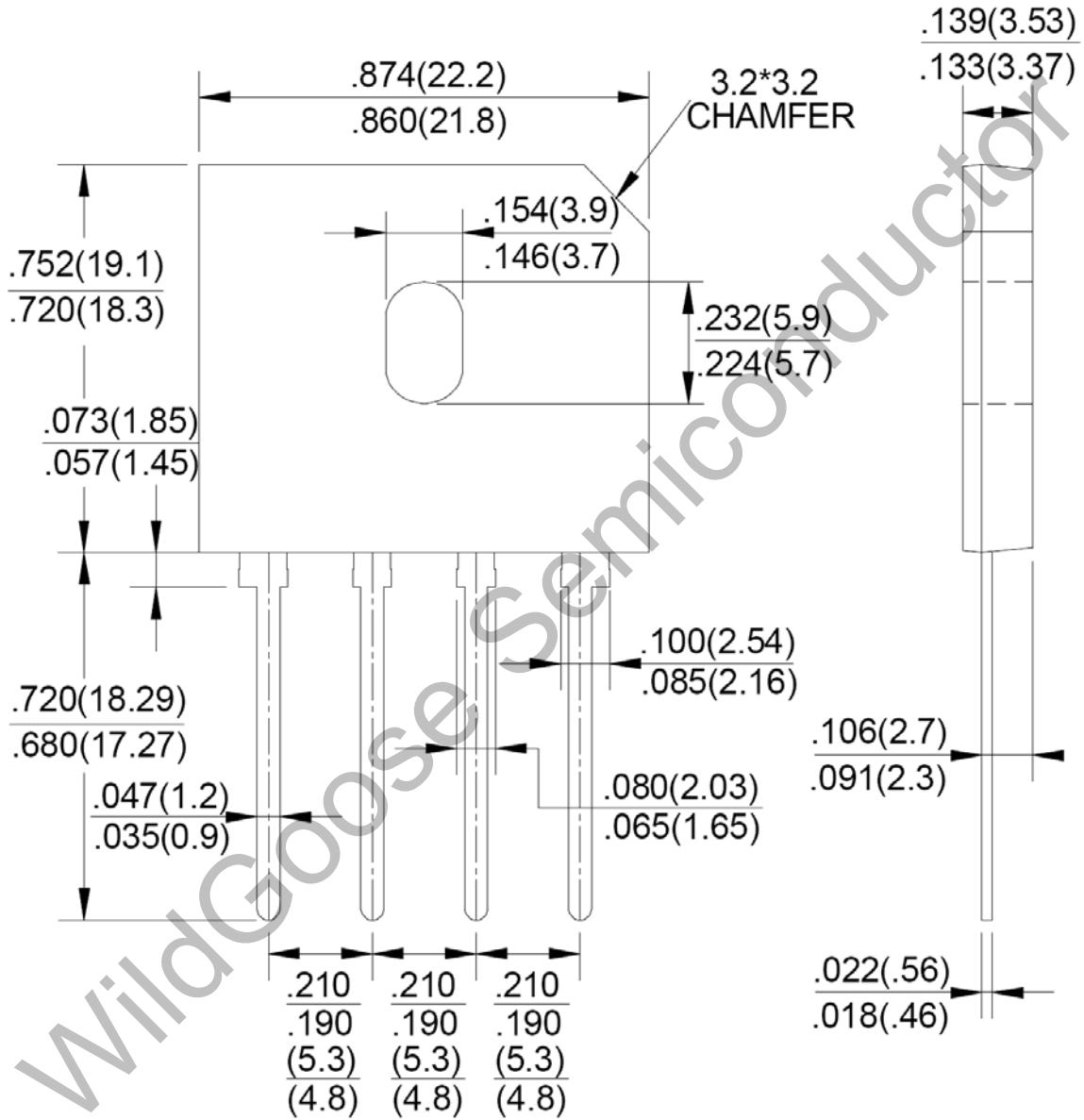


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Package Dimension

GBU



Dimensions in inches and (millimeters)