

## FEATURES

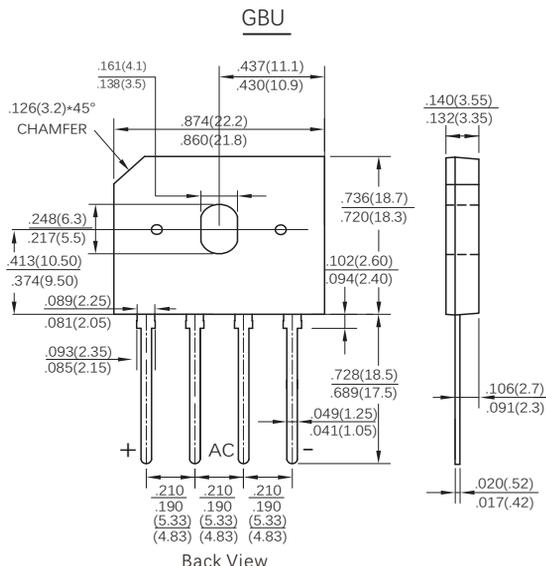
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High current capability
- Low forward voltage drop
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU

## MECHANICAL DATA

- Case: GBU molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750,method 2026
- Mounting Position: Any

## TYPICAL APPLICATIONS

Used in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, charger, home appliances, office equipment, and telecommunication applications.



Back View  
Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C ambient temperature unless otherwise specified. Single phase ,half wave , resistive or inductive load. For capacitive load,derate current by 20%.)

Parameters	Symbol	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010	Units	
Maximum Reverse Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	Volts	
Maximum RMS Voltage	$V_{RMS}$	70	140	280	420	560	700	Volts	
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	Volts	
Maximum Average Forward Rectified Current, (See Fig 2)	$I_{FAV}$	10.0						Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	220						Amps	
Rating for Fusing (t =8.3ms)	$I^2t$	200						A <sup>2</sup> S	
Maximum Instantaneous Forward Voltage at 5.0A DC	$V_F$	1.00						Volts	
Maximum DC Reverse Current at rated DC blocking voltage	$T_J = 25^\circ\text{C}$	$I_R$	5						$\mu\text{A}$
	$T_J = 125^\circ\text{C}$		100						$\mu\text{A}$
Typical Junction Capacitance (Note 1)	$C_J$	60						pF	
Typical thermal resistance (Note 2)	Junction-Ambient	$R_{\theta JA}$	25						$^\circ\text{C}/\text{W}$
	Junction-Case		$R_{\theta JC}$	2.2					
Operating temperature range	$T_J$	-55 to +150						$^\circ\text{C}$	
Storage temperature range	$T_{STG}$	-55 to +150						$^\circ\text{C}$	

NOTE: 1.Measured at 1MHz and applied reverse voltage of 4.0 Volts.

2 Unit mounted on 100mm x 100mm x 1.6mm copper plate heatsink

FIG.1-MAXIMUM FORWARD SURGE CURRENT

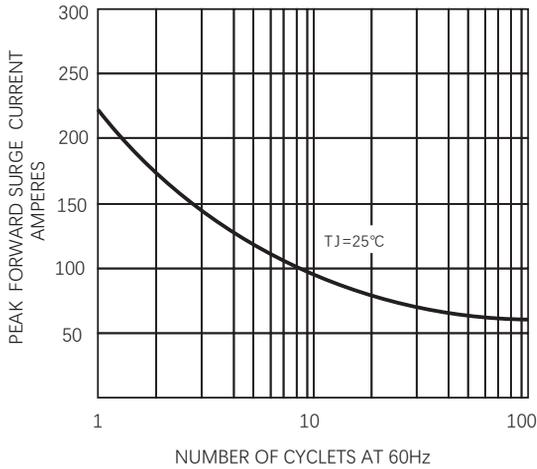


FIG.2 FORWARD CURRENT DERATING CURVE

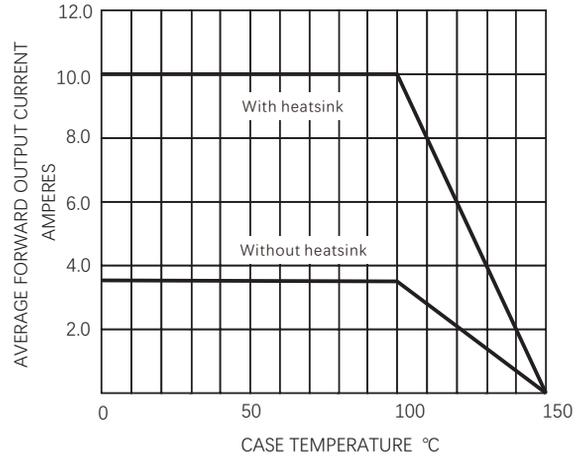


FIG. 3-TYPICAL FORWARD CHARACTERISTICS

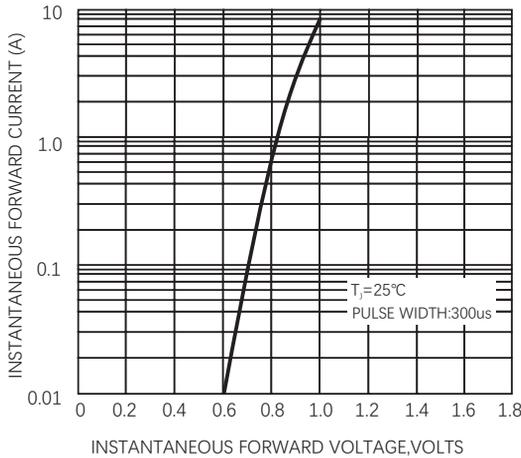
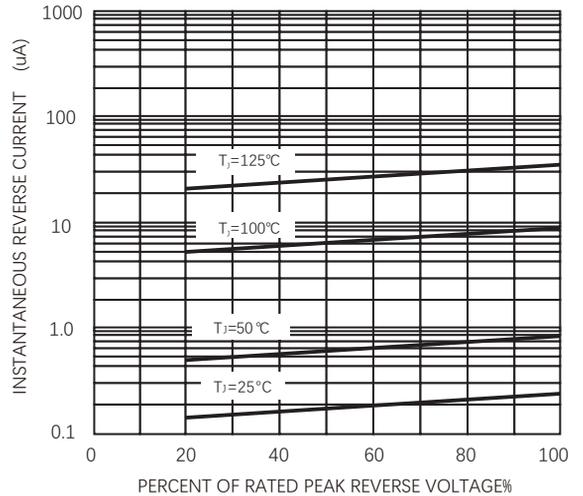


FIG.4 -TYPICAL REVERSE CHARACTERISTICS



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