

FEATURES

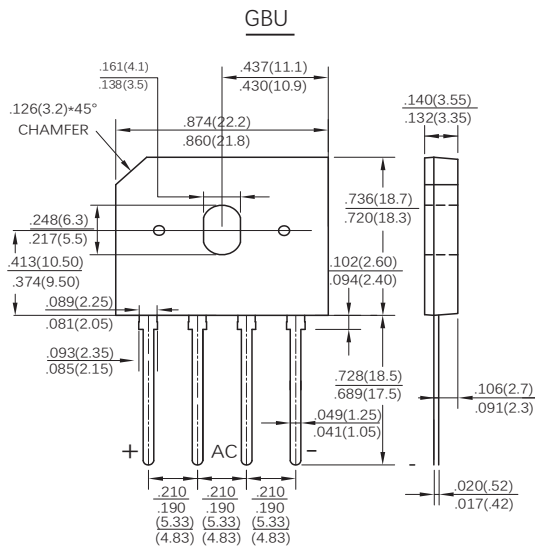
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High current capability
- Low forward voltage drop
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU

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.



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	GBU601	GBU602	GBU604	GBU606	GBU608	GBU610	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}	6.0						Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	175						Amps	
Rating for Fusing (t =8.3ms)	I^2t	127						A ² S	
Maximum Instantaneous Forward Voltage at 3.0A DC	V_F	1.00						Volts	
Maximum DC Reverse Current at rated DC blocking voltage	$T_A=25^{\circ}C$	5						I_R	μA
	$T_A=125^{\circ}C$							100	
Typical Junction Capacitance (Note 1)	C_J	50						pF	
Typical thermal resistance (Note 2)	Junction-Ambient	25						$R_{\theta JA}$	$^{\circ}C/W$
	Junction-Case							2.2	
Operating temperature range	T_J	-55 to +150						$^{\circ}C$	
Storage temperature range	T_{STG}	-55 to +150						$^{\circ}C$	

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

2 Unit mounted on 50mm x 50mm x 1.6mm copper plate heatsink

FIG.1-MAXIMUM FORWARD SURGE CURRENT

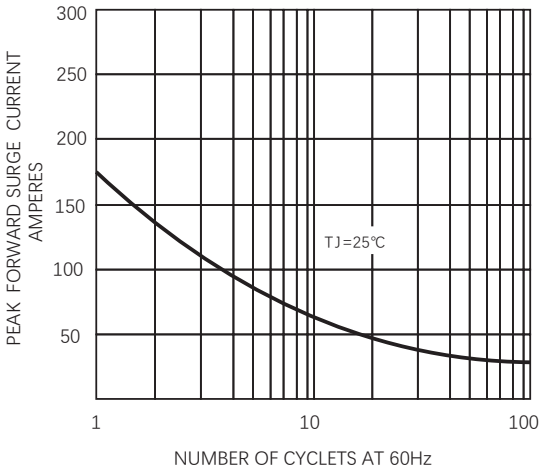


FIG.2 FORWARD CURRENT DERATING CURVE

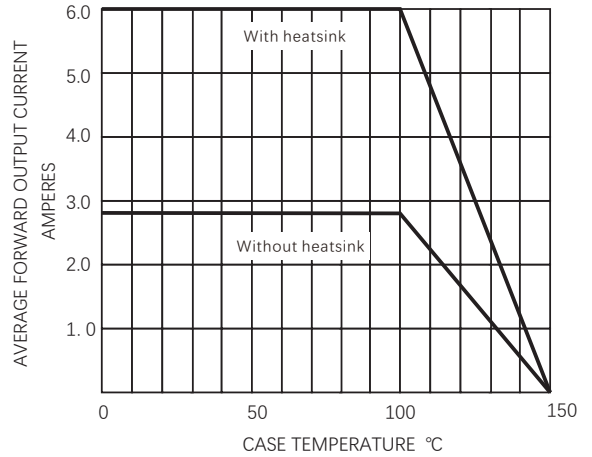


FIG. 3-TYPICAL FORWARD CHARACTERISTICS

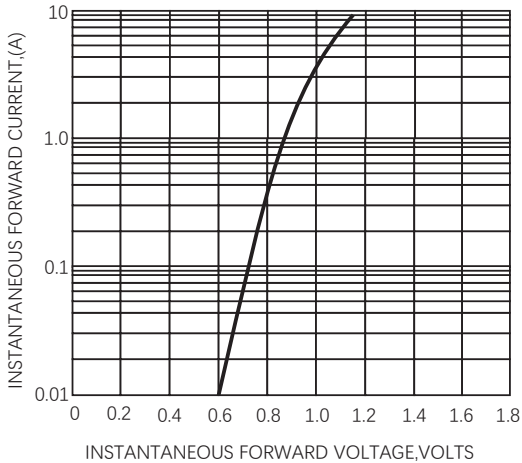
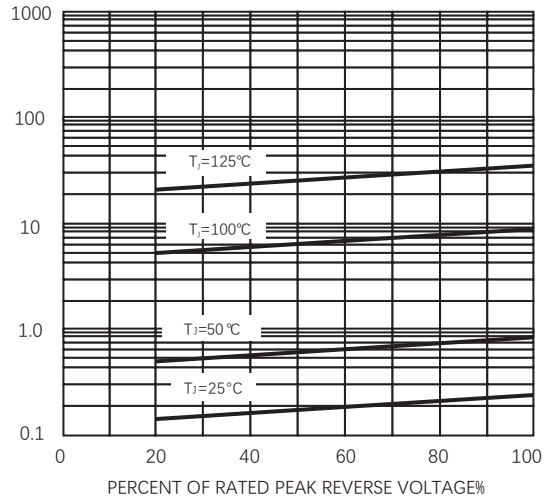


FIG.4 -TYPICAL REVERSE CHARACTERISTICS



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