

FEATURES

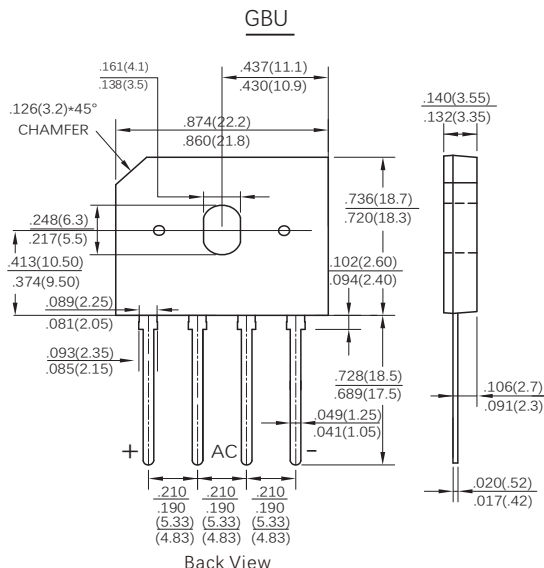
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High current capability
- Low forward voltage drop
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU

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.



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	GBU2001	GBU2002	GBU2004	GBU2006	GBU2008	GBU2010	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)		$I_{F(AV)}$	20.0						Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	260						Amps
Rating for Fusing (t =8.3ms)		I^2t	280						A ² S
Maximum Instantaneous Forward Voltage at 10A DC		V_F	1.00						Volts
Maximum DC Reverse Current at rated DC blocking voltage	T _J =25°C	I_R	5						µA
	T _J =125°C		100						µA
Typical Junction Capacitance (Note 1)		C_j	52						pF
Typical thermal resistance (Note 2)	Junction-Ambient	$R_{\theta JA}$	25						°C/W
	Junction-Case	$R_{\theta JC}$	1.5						
Operating temperature range		T_J	-55 to +150						°C
Storge temperature range		T_{STG}	-55 to +150						°C

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

2 Unit mounted on 75mm x 45mm x 5.5mm AL plate heatsink

FIG.1-MAXIMUM FORWARD SURGE CURRENT

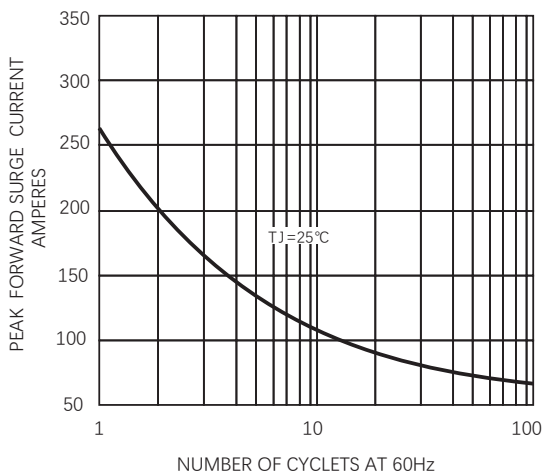


FIG.2 FORWARD CURRENT DERATING CURVE

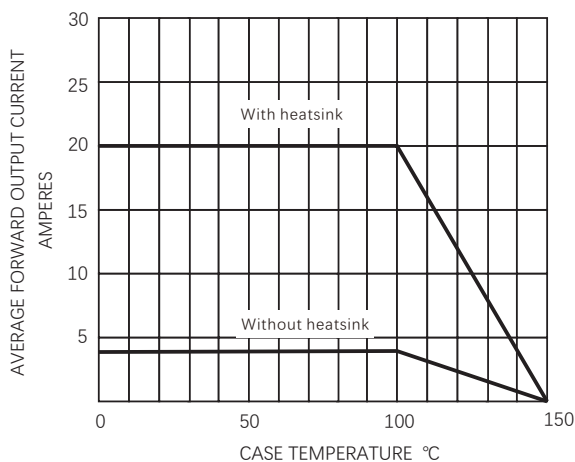


FIG. 3-TYPICAL FORWARD CHARACTERISTICS

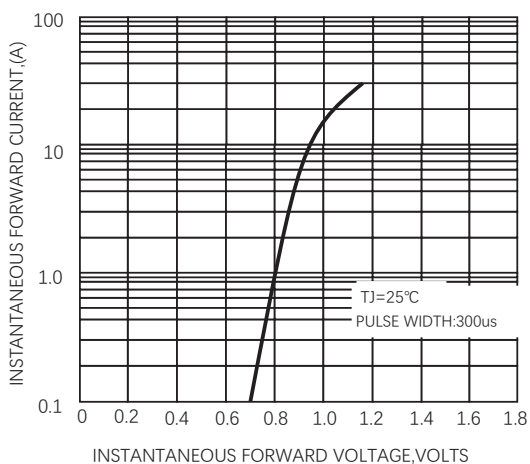
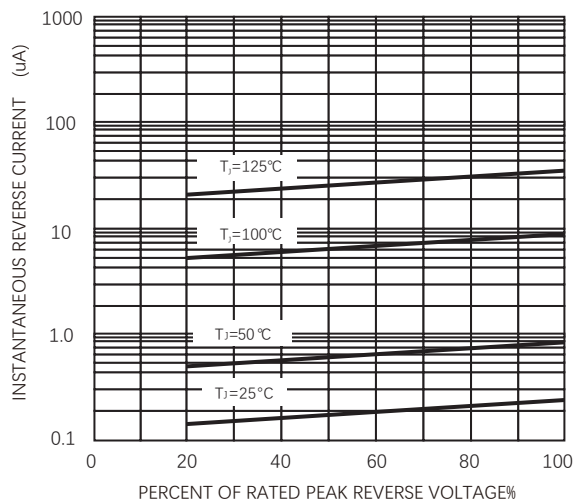


FIG.4 -TYPICAL REVERSE CHARACTERISTICS



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