

LOW VF GENERAL PURPOSE BRIDGE RECTIFIER
Reverse Voltage:50 to 1000Volts
Forward Current:25.0 Amps

FEATURES

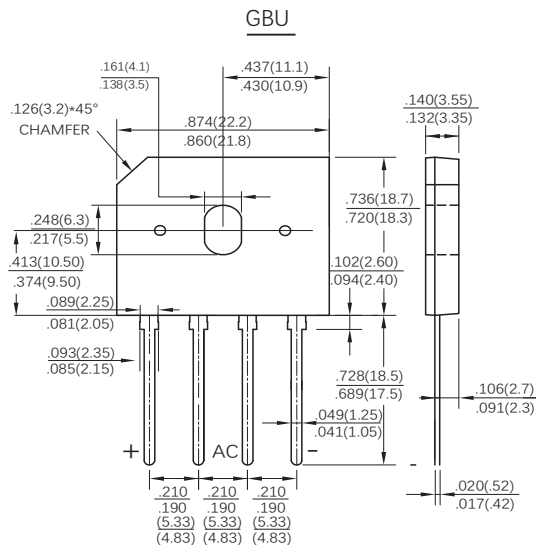
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High current capability
- Low forward voltage drop
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU

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	Value	Units
Maximum Reverse Peak Reverse Voltage		V_{RRM}	600	Volts
Maximum RMS Voltage		V_{RMS}	420	Volts
Maximum DC Blocking Voltage		V_{DC}	600	Volts
Maximum Average Forward Rectified Current, (See Fig 2)		$I_{F(AV)}$	25.0	Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	350	Amps
Rating for Fusing (t =8.3ms)		I^2t	508	A ² S
Maximum Instantaneous Forward Voltage at 12.5A DC		V_F	0.93	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	75	pF
Typical thermal resistance (Note 2)	Junction-Ambient	$R_{\theta JA}$	25	°C/W
	Junction-Case	$R_{\theta JC}$	1.0	
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 copper plate heatsink

FIG.1-MAXIMUM FORWARD SURGE CURRENT

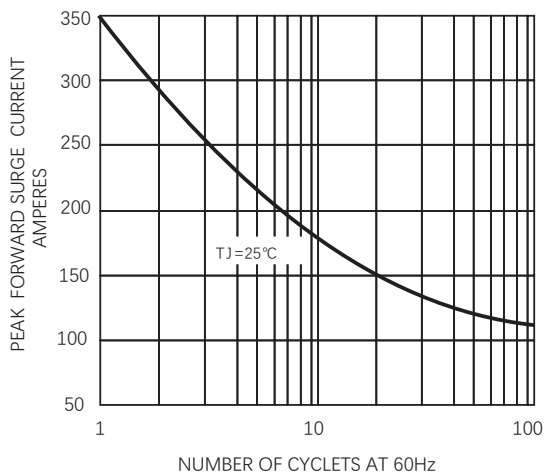


FIG.2 FORWARD CURRENT DERATING CURVE

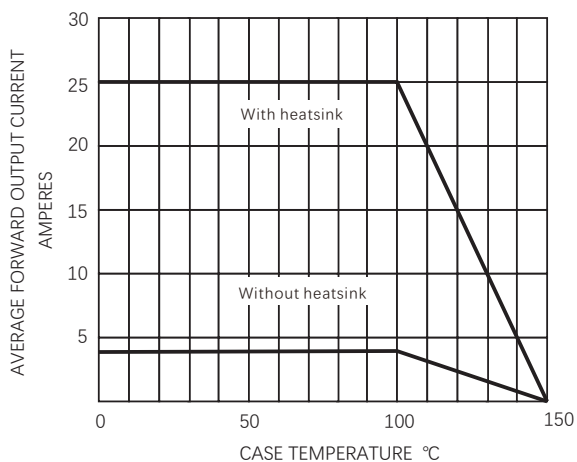


FIG. 3-TYPICAL FORWARD CHARACTERISTICS

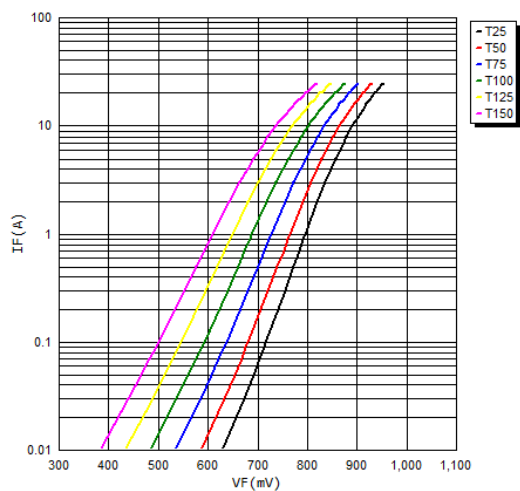
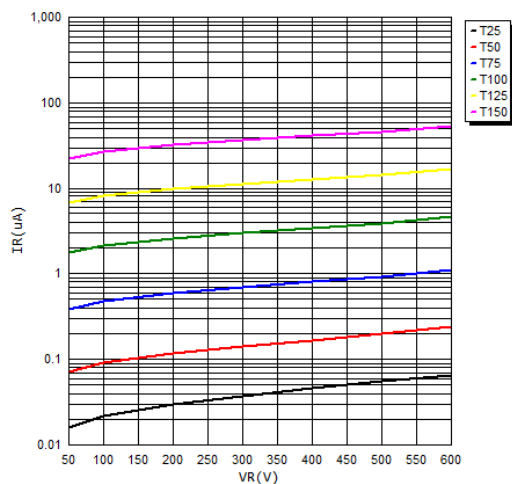


FIG.4 -TYPICAL REVERSE CHARACTERISTICS



Friendship Reminder

- JiNan JingHeng (hereinafter referred to as JH) reserves the right to make changes to this document and its products and specifications at anytime without notice.
- Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- JH makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does JH assume any liability for application assistance or customer product design.
- JH does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.
- No license is granted by implication or otherwise under any intellectual property rights of JH.
- JH's products are not authorized for use as critical components in life support devices or systems without express written approval of JH.