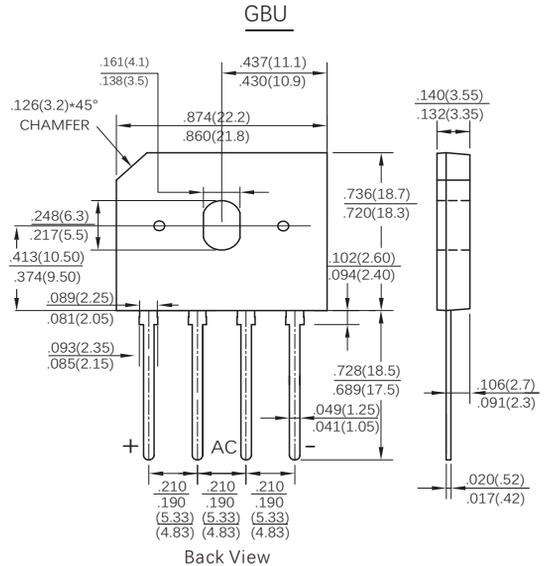


## Features

- 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



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, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.)

Parameter	Symbols	GBU1016	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	1600	Volts
Maximum RMS Voltage	$V_{RMS}$	1120	Volts
Maximum DC Blocking Voltage	$V_{DC}$	1600	Volts
Maximum Average Forward Rectified Current	$I_{(AV)}$	10.0	Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	150	Amps
Rating for fusing (t<8.3ms)	$I^2t$	93	A <sup>2</sup> s
Maximum Instantaneous Forward Voltage at 5.0A DC	$V_F$	1.15	Volts
Maximum DC Reverse Current at rated DC blocking voltage	$T_A=25^{\circ}C$	5	$\mu A$
	$T_A=125^{\circ}C$	100	
Typical thermal resistance	without heatsink	$R_{\theta JA}$	26
	With heatsink	$R_{\theta JC}$	3.5
	without heatsink	$R_{\theta JL}$	15
Operating and Storage temperature range	$T_J$ $T_{STG}$	-55 to +150	$^{\circ}C$

FIG.1-DERATING CURVE  
OUTPUT RECTIFIED CURRENT

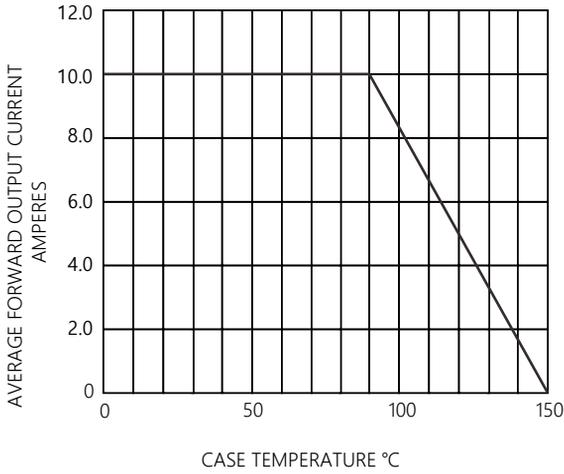


FIG.2-MAXIMUM FORWARD SURGE CURRENT

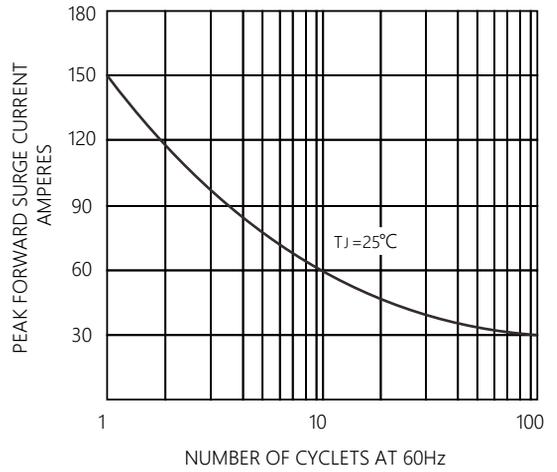


FIG.3-TYPICAL FORWARD CHARACTERISTICS

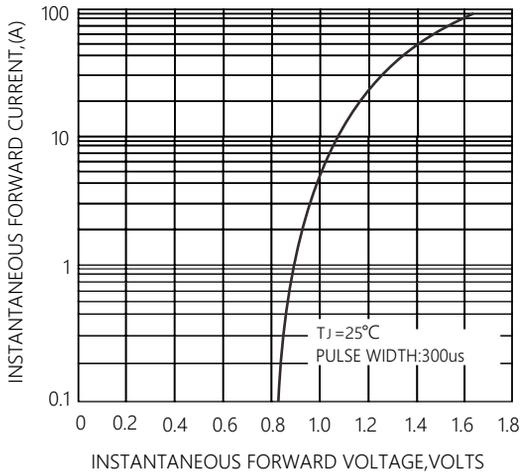
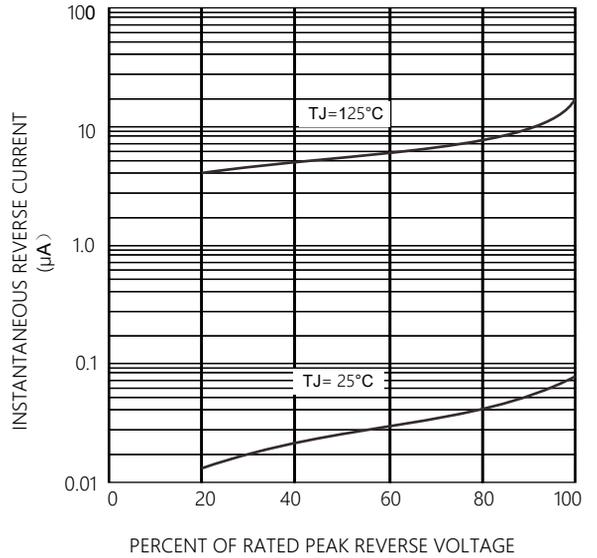


FIG.4 -TYPICAL REVERSE CHARACTERISTICS



## 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.