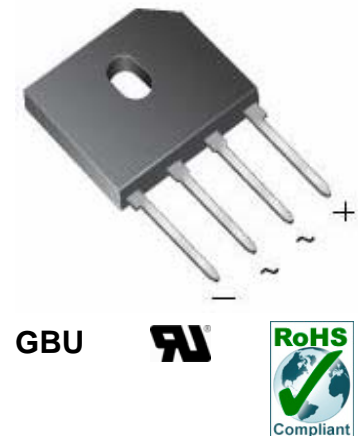


## 4 A Glass Passivated Bridge Rectifier

### Features

- Glass Passivated Chip Junction
- Low Forward Voltage Drop
- High Reliability
- Ideal for Printed Circuit Boards
- High temperature soldering guaranteed: 260°C/10 seconds at 5lbs.(2.3kg) tension
- This series is UL recognized under component index, File number E194718
- RoHS compliant



### Mechanical Data

<b>Case:</b>	GBU, Epoxy meets UL 94V-0 flammability rating
<b>Terminals:</b>	Leads solderable per MIL-STD-750, Method 2026
<b>Polarity:</b>	Polarity symbols marked on case
<b>Mounting Torque:</b>	5 in. – lbs. max.
<b>Weight:</b>	0.14 ounce, 4.0 grams

### Maximum Ratings And Electrical Characteristics (T<sub>amb</sub>=25°C)

Symbols	Parameter	GBU 4A	GBU 4B	GBU 4D	GBU 4G	GBU 4J	GBU 4K	GBU 4M	Unit	
V <sub>RRM</sub>	Maximum Repetitive Peak Reverse Voltage	50	100	20	400	600	800	1000	V	
V <sub>RMS</sub>	Maximum RMS Input Voltage	35	70	140	280	420	560	700	V	
V <sub>DC</sub>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I <sub>(AV)</sub>	Maximum Average Forward Rectified Output Current at	T <sub>C</sub> =100°C (Note 2)		4.0					A	
		T <sub>A</sub> =40°C (Note 3)		3.0						
I <sub>FSM</sub>	Peak Forward Surge Current Single Sine-wave Superimposed on Rated Load (JEDEC Method)	150								A
V <sub>F</sub>	Maximum Instantaneous Forward Voltage Drop per leg at 4.0A	1.0								V
I <sub>t</sub> <sup>2</sup>	Rating for Fusing (1ms<t<8.3ms)	93								A <sup>2</sup> s

# 4 A Glass Passivated Bridge Rectifier

## GBU4A - GBU4M

Symbols	Parameter	GBU	GBU	GBU	GBU	GBU	GBU	Unit	
		4A	4B	4D	4G	4J	4K		4M
$I_R$	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	$T_A=25^\circ\text{C}$		5.0				$\mu\text{A}$	
		$T_A=125^\circ\text{C}$		500					
$R_{\theta JA}$	Typical Thermal Resistance per leg (Note 2)	19							$^\circ\text{C/W}$
$R_{\theta JC}$	Typical Thermal Resistance per leg (Note 3)	4							$^\circ\text{C/W}$
$T_J, T_{STG}$	Operating and Storage Temperature Range	-55 to 150							$^\circ\text{C}$

Note:

1. Mounted on 40 x 40 x 1.5mm Al. plate
  2. Mounted on PCB at 9.5mm lead length with 12mm<sup>2</sup> copper pad
  3. Single Phase, half wave, 60 Hz, resistive or inductive load.
- For capacitive load, derate current by 20%

### Rating and Characteristic Curves

Fig.1-Derating Curve Output Rectified Current

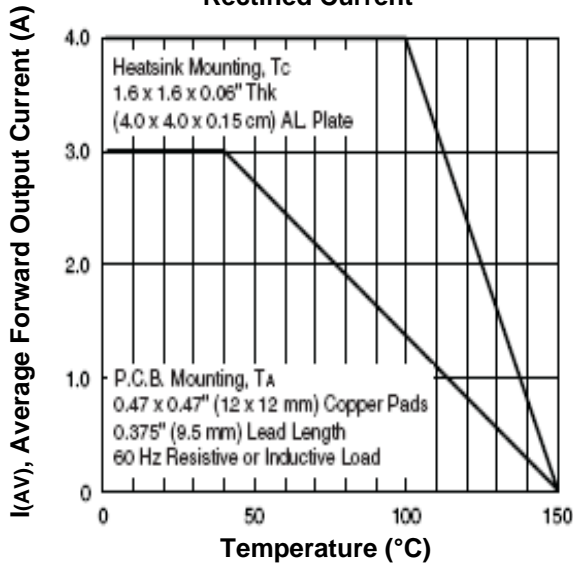
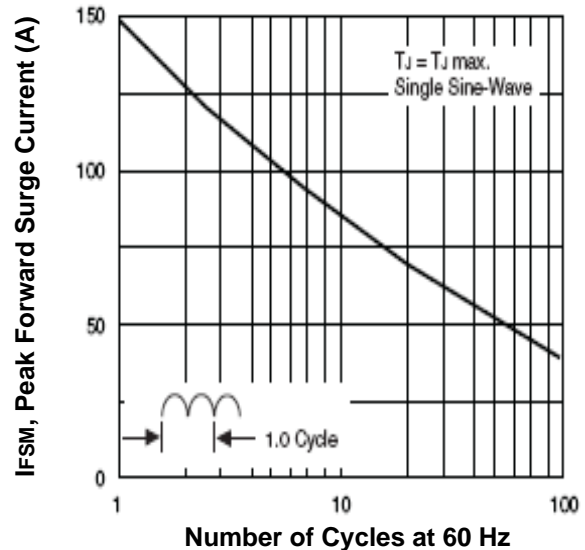


Fig.2-Maximum Non-Repetitive Peak Forward Surge Current per leg



# 4 A Glass Passivated Bridge Rectifier

## GBU4A - GBU4M

Fig.3-Typical Forward Characteristic per leg

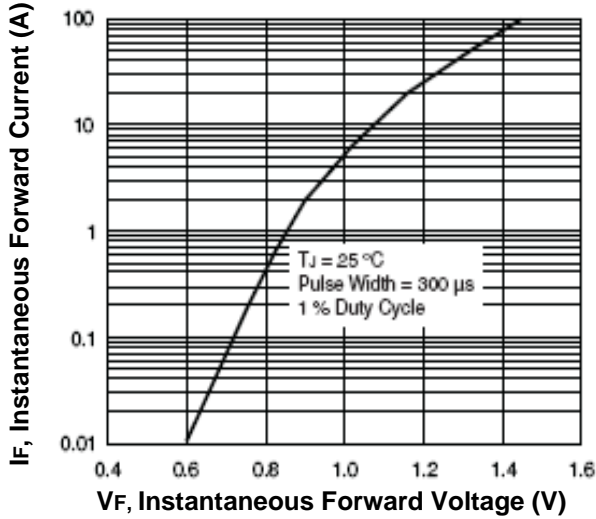
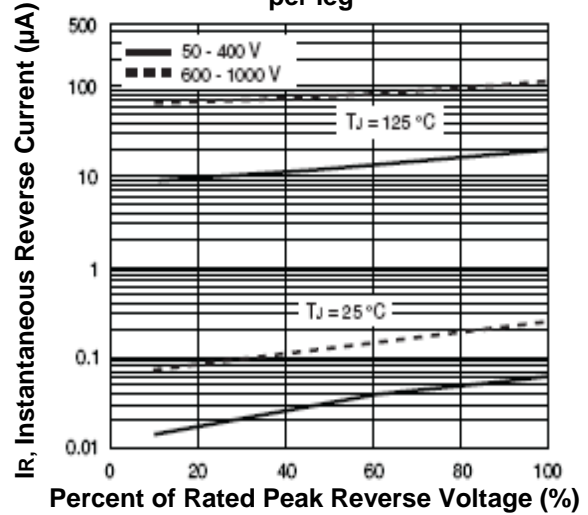
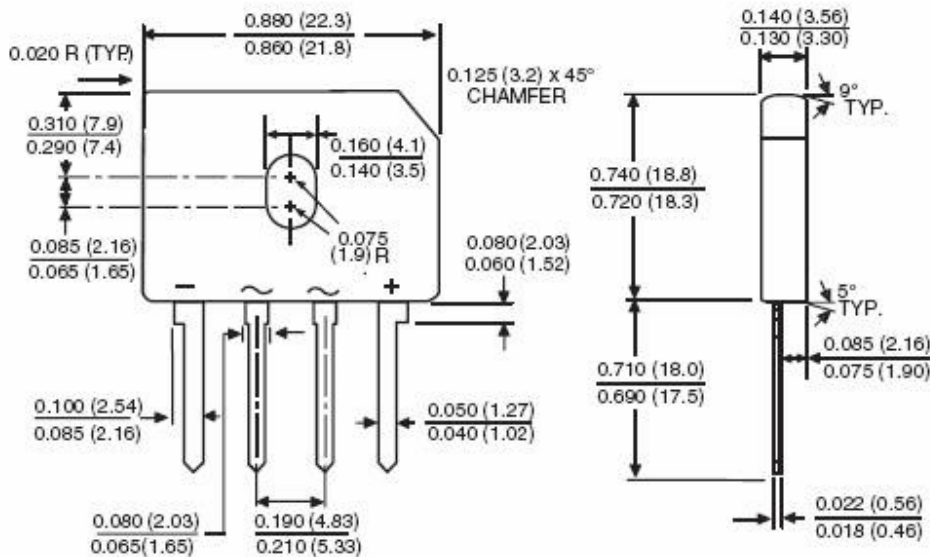


Fig.4-Typical Reverse Characteristics per leg



### Dimensions in inch (mm)

#### Case Type GBU



# 4 A Glass Passivated Bridge Rectifier

**GBU4A - GBU4M**

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