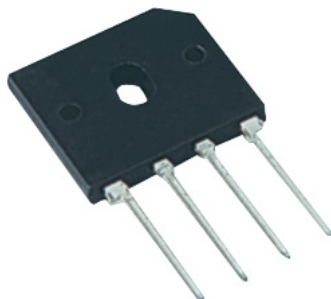


# Glass Passivated Bridge Rectifier



## Features

- Surge overload rating - 220 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- Mounting position: Any

## 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%

Characteristic	Symbol	Values	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	600	V
Maximum RMS Voltage	$V_{RMS}$	420	
Maximum DC Blocking Voltage	$V_{DC}$	600	
Maximum Average Forward (with heatsink Note 2) Rectified Current @ $T_C = 100^\circ\text{C}$ (without heatsink)	$I_{(AV)}$	10 3	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	$I_{FSM}$	220	
Maximum Forward Voltage at 5A DC	$V_F$	0.92	V
Maximum DC Reverse Current @ $T_J = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_J = 125^\circ\text{C}$	$I_R$	10 127	$\mu\text{A}$
$I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	200	$\text{A}^2\text{s}$
Typical Junction Capacitance Per Element (Note 1)	$C_J$	70	pF
Typical Thermal Resistance	$R_{\theta JC}$	2.2	$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$		

### Notes:

1. Measured at 1MHz and applied reverse voltage of 4V DC
2. Device mounted on 100mm × 100mm × 1.6mm Cu plate heatsink.
3. The typical data above is for reference only

# Glass Passivated Bridge Rectifier

## Rating and Characteristic Curves

FIG.1-MAXIMUM FORWARD SURGE CURRENT

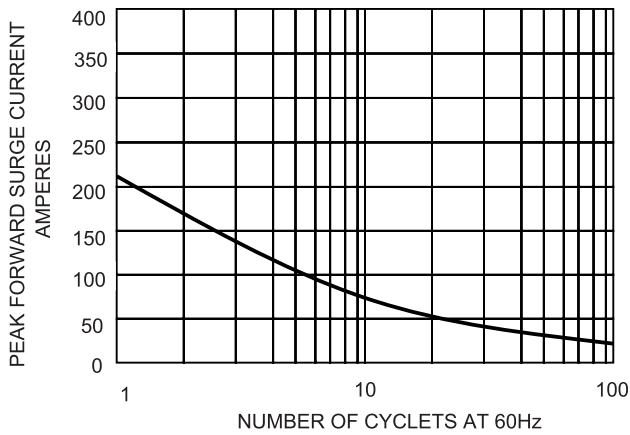


FIG.2- DERATING CURVE  
OUTPUT RECTIFIED CURRENT

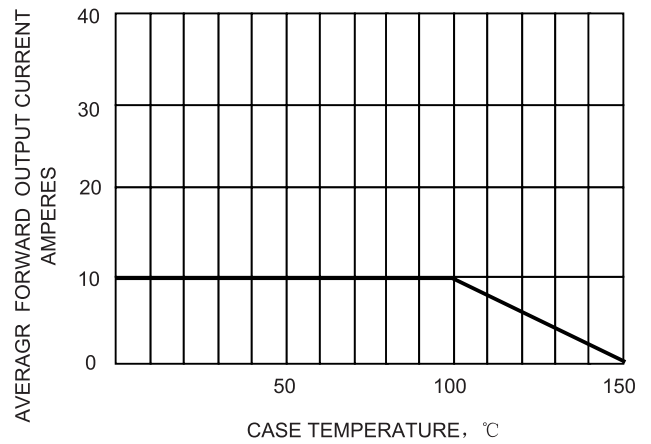


FIG.3-TYPICAL FORWARD CHARACTERISTICS

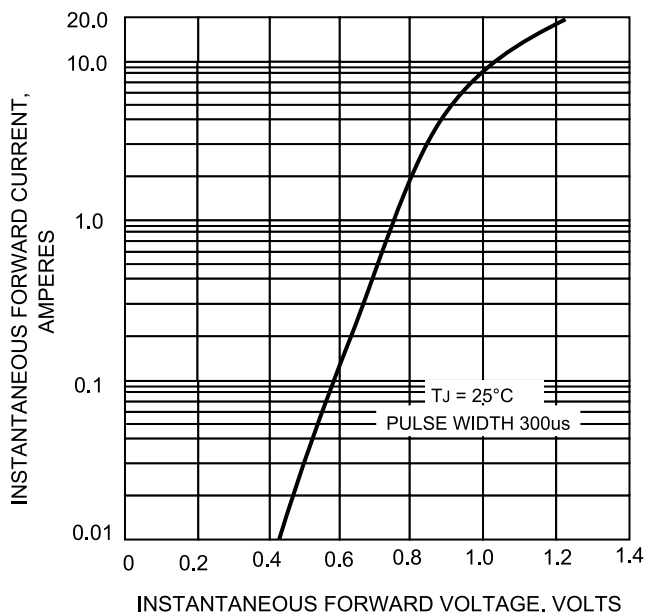
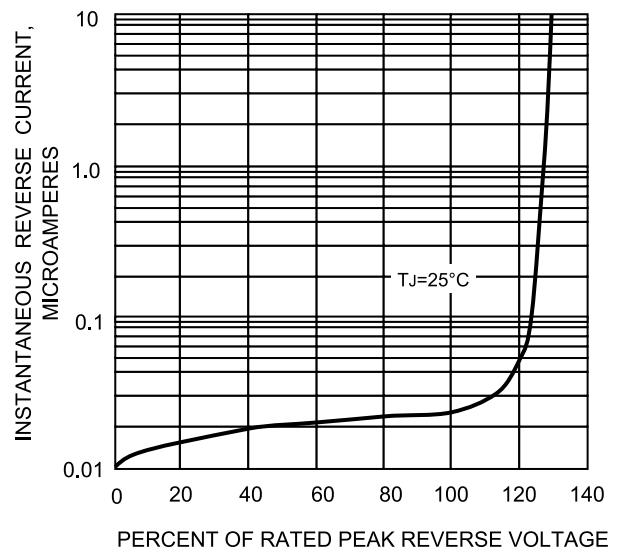
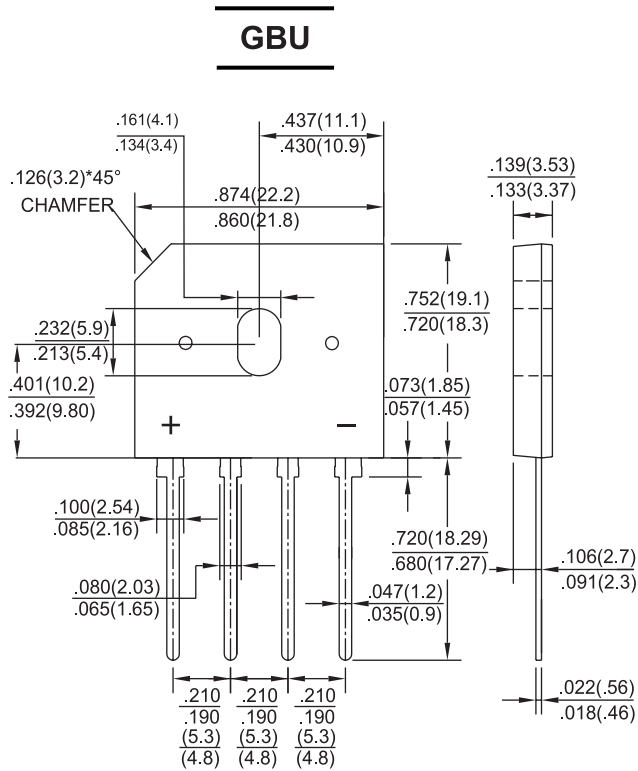


FIG.4-TYPICAL REVERSE CHARACTERISTICS



# Glass Passivated Bridge Rectifier

## Dimension:



Dimensions : Inches (Millimetres)

## Part Number Table

Description	Part Number
Glass Passivated Bridge Rectifier	GBU1006L

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