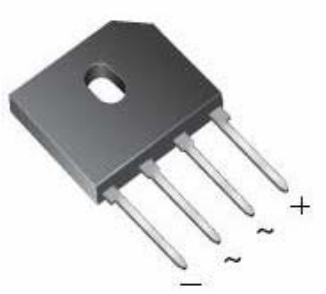
6 A Glass Passivated Bridge Rectifier



GBU

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

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

Maximum Ratings And Electrical Characteristics (T_{amb}=25˚C)

Symbols	Parameter		GBU 6A	GBU 6B	GBU 6D	GBU 6G	GBU 6J	GBU 6K	GBU 6M	Unit
V_{RRM}	Maximum Repetitive Peak Reverse Voltage		50	100	200	400	600	800	1000	V
V_{RMS}	Maximum RMS Input Voltage		35	70	140	280	420	560	700	V
V_{DC}	Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
$I_{(AV)}$	Maximum Average Forward Rectified Output Current at T_A =100˚C (Note 1)		6.0							A
I_{FSM}	Peak Forward Surge Current Single Sine-wave Superimposed on Rated Load (JEDEC Method)		175							A
V_F	Maximum Instantaneous Forward Voltage Drop per leg at 6.0A		1.0							V
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	T_A=25°C	5.0							μA
		T_A=125°C	500							

Symbols	Parameter	GBU 6A	GBU 6B	GBU 6D	GBU 6G	GBU 6J	GBU 6K	GBU 6M	Unit
I^2t	Rating for Fusing (1ms<t<8.3ms)	127							A^2s
$R_{\theta JA}$	Typical Thermal Resistance per leg (Note 2)	7.4							˚C/W
$R_{\theta JC}$	Typical Thermal Resistance per leg (Note 1)	2.2							˚C/W
T_J, T_{STG}	Operating and Storage Temperature Range	-55 to 150							˚C

Note:

1. Mounted on 65 x 35 x 1.5mm Al. plate
2. Mounted on PCB at 9.5mm lead length with 12mm² 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

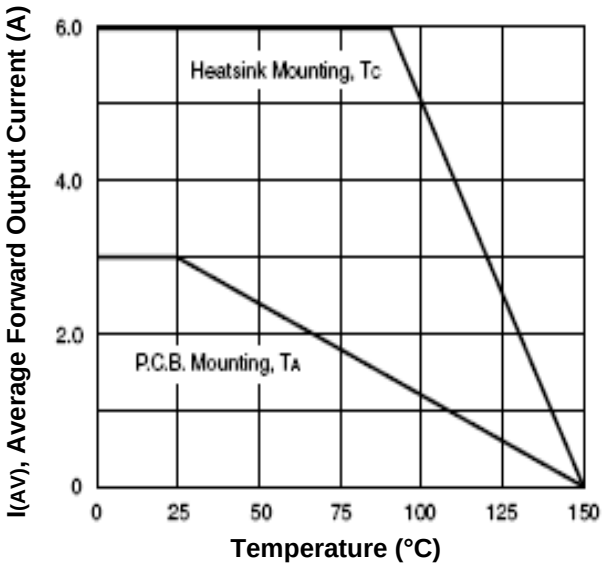


Fig.2-Maximum Non-Repetitive Peak Forward Surge Current per leg

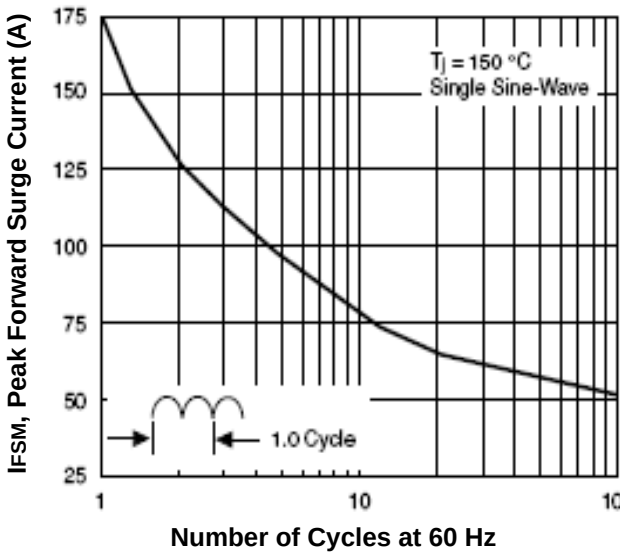


Fig.3- Typical Forward Characteristics per leg

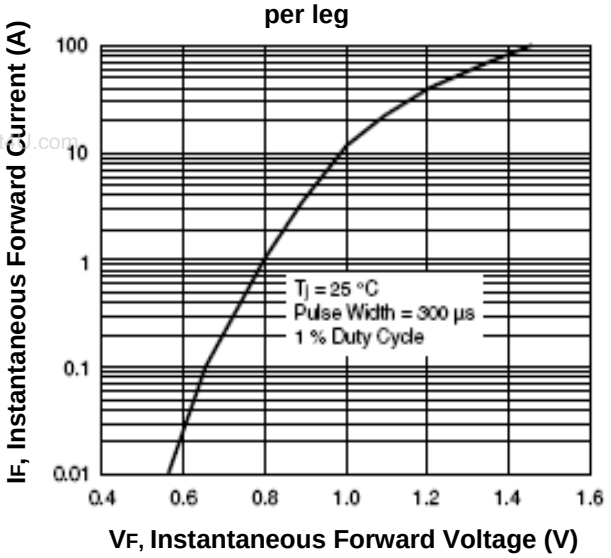
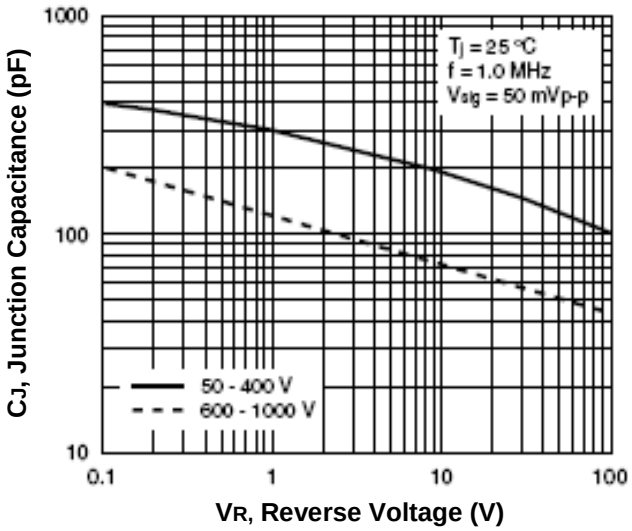
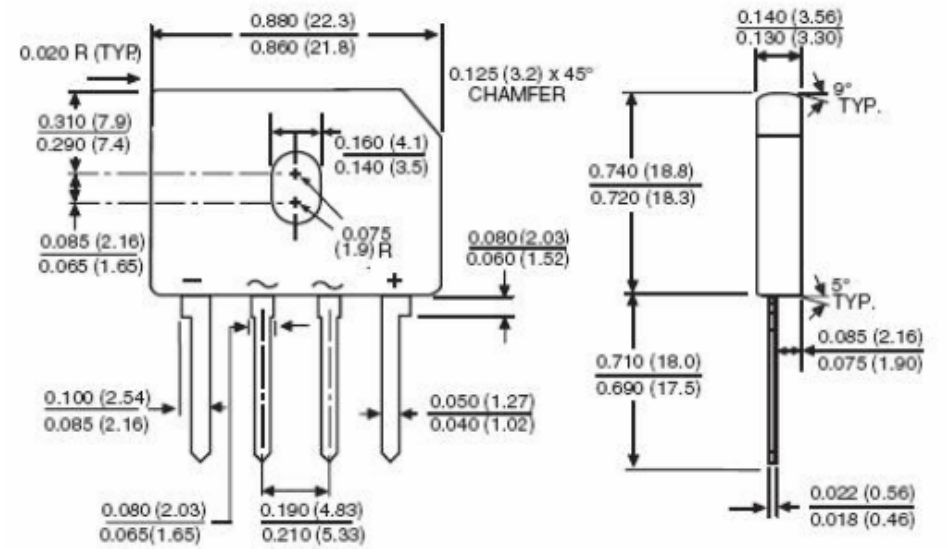


Fig.4-Typical Junction Capacitance per leg



Dimensions in inch (mm)

Case Type GBU



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