

10 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
- RoHS compliant



GBU



Mechanical Data

Case:	GBU, Epoxy meets UL 94V-0 flammability rating
Terminals:	Leads solderable per MIL-STD-202, Method 208
Polarity:	Polarity symbols marked on case
Mounting Torque:	5 in. – lbs. max.
Weight:	0.14 ounce, 4.0 gram

Maximum Ratings And Electrical Characteristics ($T_{amb}=25^{\circ}\text{C}$)

Symbols	Parameter		GBU 10A	GBU 10B	GBU 10D	GBU 10G	GBU 10J	GBU 10K	Unit
V _{RRM}	Maximum Repetitive Peak Reverse Voltage		50	100	200	400	600	800	V
V _{RMS}	Maximum RMS Input Voltage		35	70	140	280	420	560	V
V _{DC}	Maximum DC Blocking Voltage		50	100	200	400	600	800	V
I _(AV)	Maximum Average Forward Rectified Output Current at T _A =100°C (Note 1)		10						A
I _{FSM}	Peak Forward Surge Current Single Sine-wave Superimposed on Rated Load (JEDEC Method)		200						A
V _F	Maximum Instantaneous Forward Voltage Drop per leg at 10.0A		1.1						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						
I ² _t	Rating for Fusing (1ms<t<8.3ms)		166						A²s
T _J ,T _{STG}	Operating and Storage Temperature Range		-55 to 150						°C

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GBU10A - GBU10K

Note:

1. Single Phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Rating and Characteristic Curves

Fig.1-Forward Current
Derating Curve

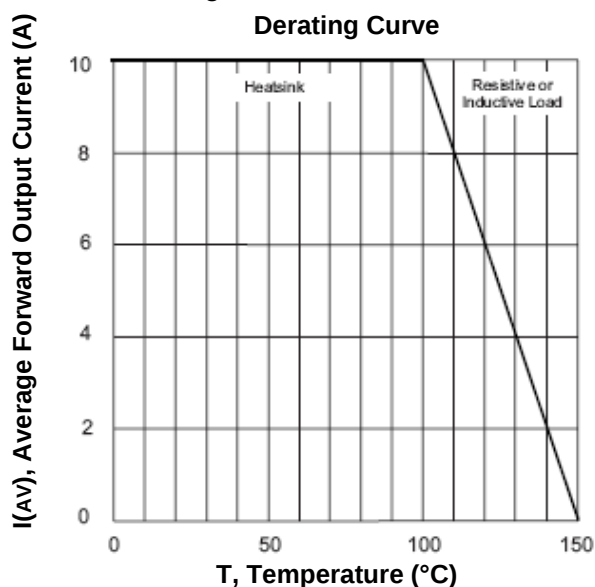


Fig.2-Maximum Non-Repetitive Surge
Current

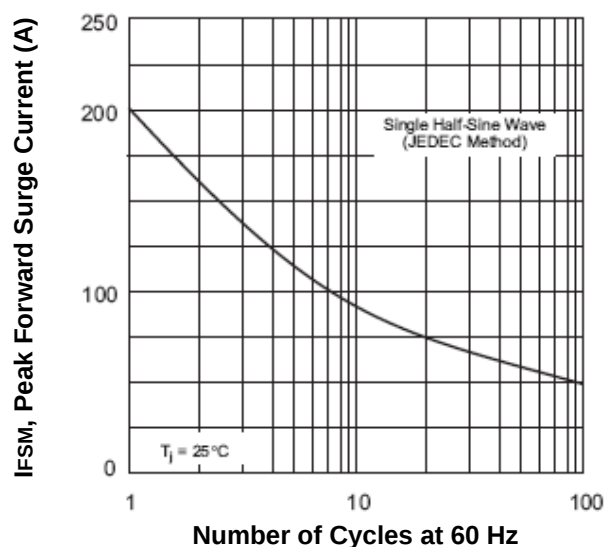


Fig.3- Typical Forward Characteristics,
per leg

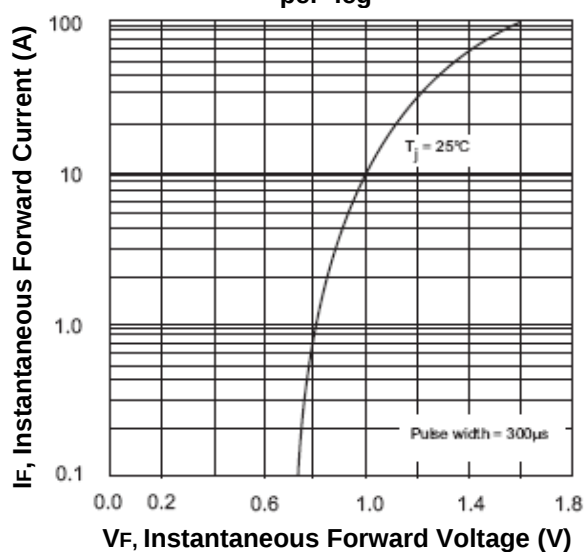
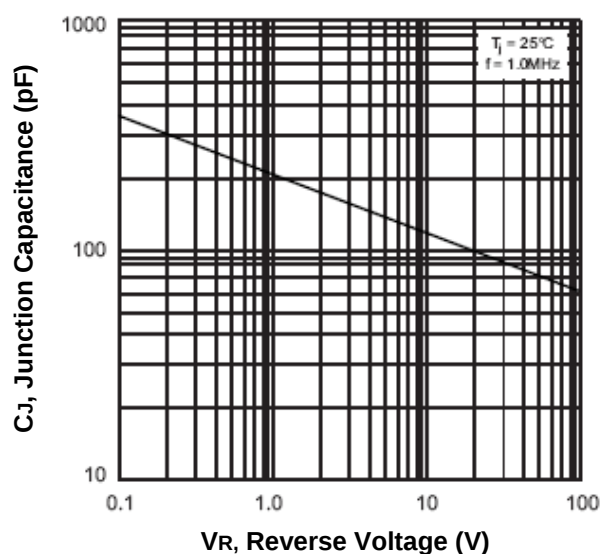
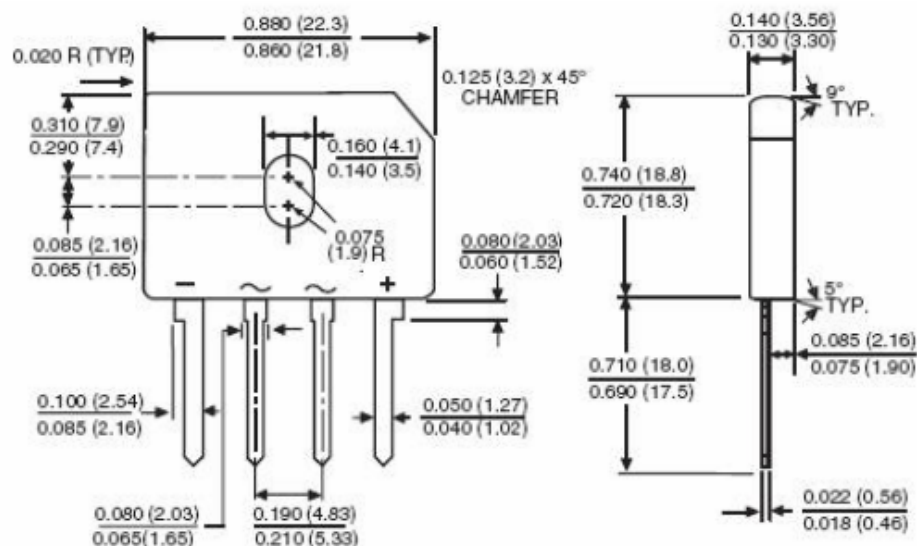


Fig.4-Typical Junction Capacitance



GBU10A - GBU10K

Case Type GBU



US HEADQUARTERS

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