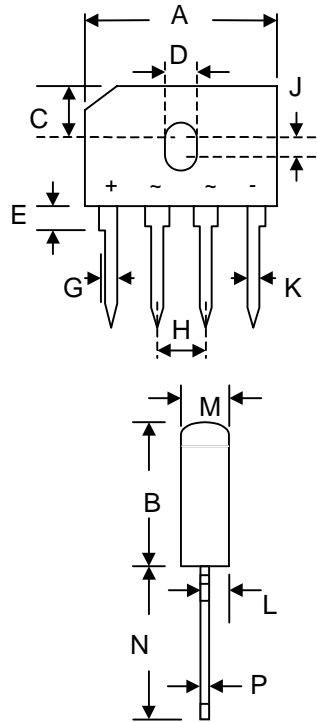


6.0A GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards



Dim	GBU	
	Min	Max
A	21.80	22.30
B	18.30	18.80
C	7.40	7.90
D	3.50	4.10
E	1.52	2.03
G	2.16	2.54
H	4.83	5.33
J	1.65	2.16
K	1.65	2.03
L	0.76	1.02
M	3.30	3.56
N	17.50	18.00
P	0.46	0.56
All Dimensions in mm		

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 4.0 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	GBU6A	GBU6B	GBU6D	GBU6G	GBU6J	GBU6K	Unit
Peak Repetitive Reverse Voltage	V_{RRM}							V
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	
DC Blocking Voltage	V_R							
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	V
Average Rectified Output Current @ $T_C = 100^\circ\text{C}$	I_O	6.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	175						A
I^2t Rating for Fusing ($t < 8.35\text{ms}$)	I^2t	127						A^2s
Forward Voltage (per element) @ $I_F = 6.0\text{A}$	V_{FM}	1.0						V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_C = 100^\circ\text{C}$	I_R	5.0 500						μA
Typical Thermal Resistance (per leg) (Note 1)	$R_{\theta JA}$	8.6						K/W
Typical Thermal Resistance (per leg) (Note 2)	$R_{\theta JC}$	3.1						K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150						$^\circ\text{C}$

Note: 1. Thermal resistance junction to ambient, mounted on PCB at 9.5mm lead length with 12mm² copper pads.
2. Thermal resistance junction to case, mounted on 6.5 x 3.5 x 0.15cm thick AL plate.

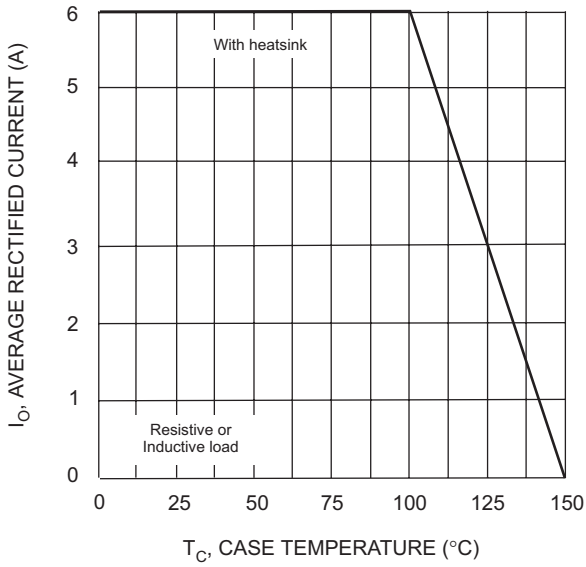


Fig. 1 Forward Current Derating Curve

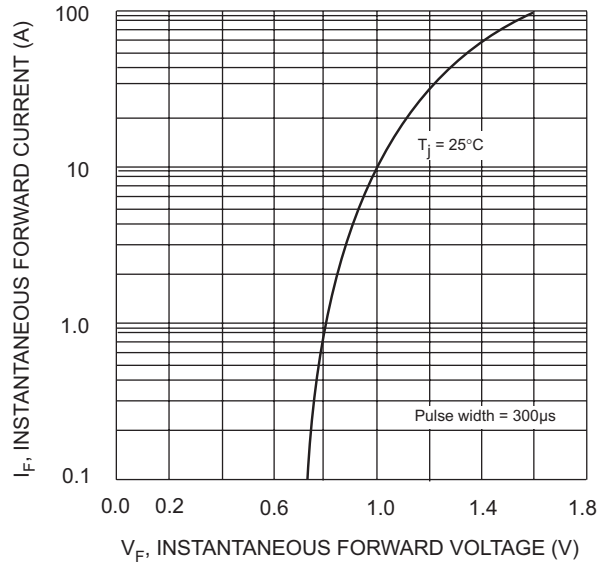


Fig. 2 Typical Forward Characteristics, per element

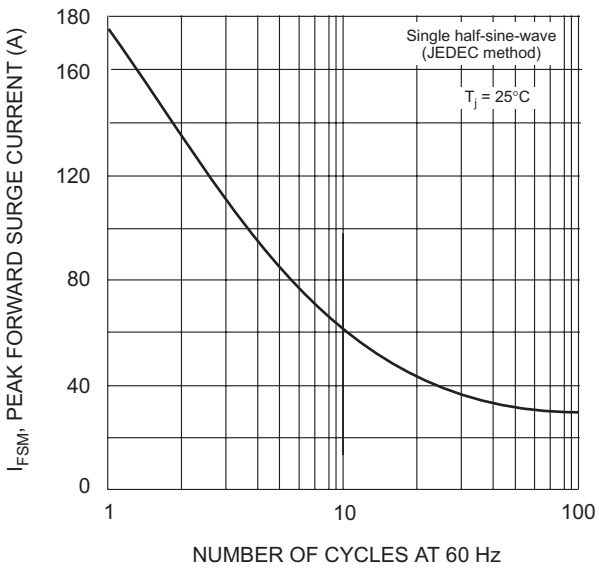


Fig. 3 Maximum Non-Repetitive Surge Current

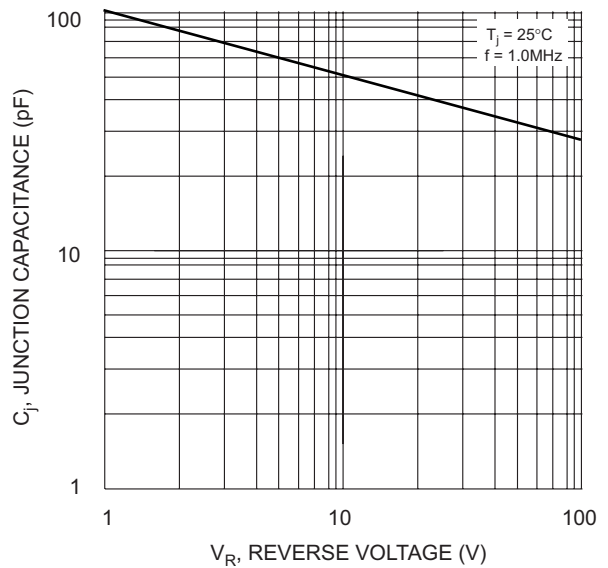


Fig. 4 Typical Junction Capacitance

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
GBU6A	SIL Bridge	25 Units/Tube
GBU6B	SIL Bridge	25 Units/Tube
GBU6D	SIL Bridge	25 Units/Tube
GBU6G	SIL Bridge	25 Units/Tube
GBU6J	SIL Bridge	25 Units/Tube
GBU6K	SIL Bridge	25 Units/Tube

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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