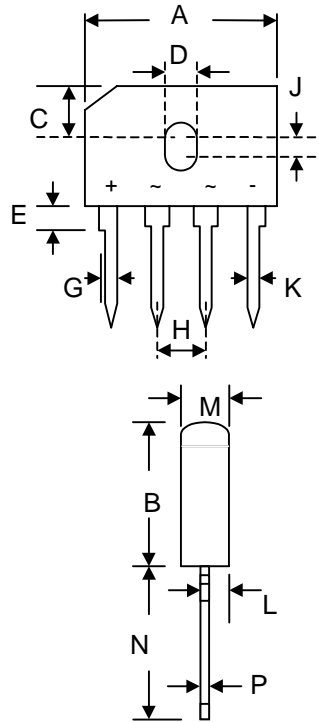


8.0A GLASS PASSIVATED BRIDGE RECTIFIER

Features

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



GBU		
Dim	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°C unless otherwise specified

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

Characteristic	Symbol	GBU8A	GBU8B	GBU8D	GBU8G	GBU8J	GBU8K	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	V
RMS Reverse Voltage	V _{R(RMS)}}	35	70	140	280	420	560	V
Average Rectified Output Current @T _C = 100°C @T _A = 45°C	I _O	8.0 6.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200						A
I ² t Rating for Fusing (t < 8.35ms)	I ² t	166						A ² s
Forward Voltage (per element) @I _F = 8.0A	V _{FM}	1.0						V
Peak Reverse Current At Rated DC Blocking Voltage @T _A = 25°C @T _C = 100°C	I _R	5.0 500						μA
Typical Thermal Resistance (per leg) (Note 1)	R _{θJA}	18.0						K/W
Typical Thermal Resistance (per leg) (Note 2)	R _{θJC}	3.0						K/W
Operating and Storage Temperature Range	T _j , T _{STG}	-55 to +150						°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 7.5 x 7.5 x 0.3cm thick AL plate.

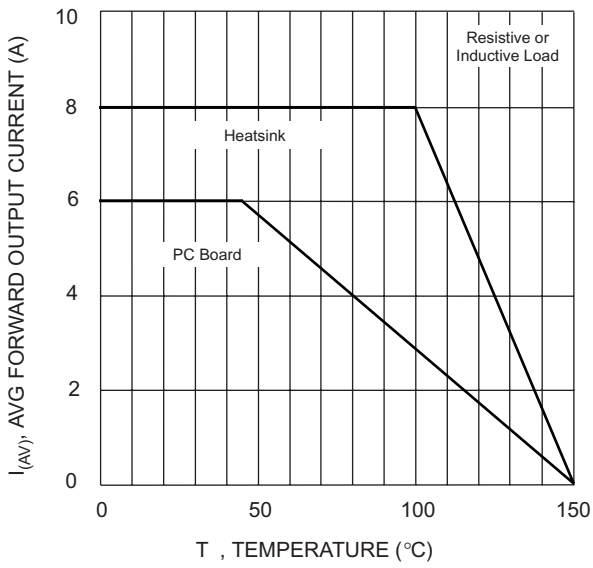


Fig. 1 Forward Current Derating Curve

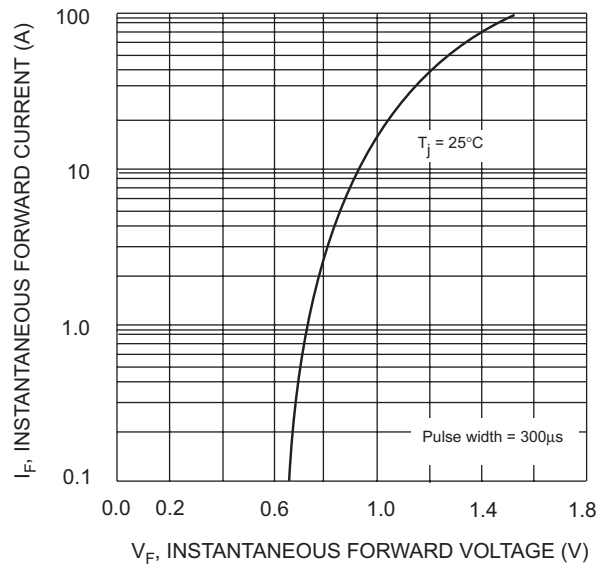


Fig. 2 Typical Forward Characteristics, per element

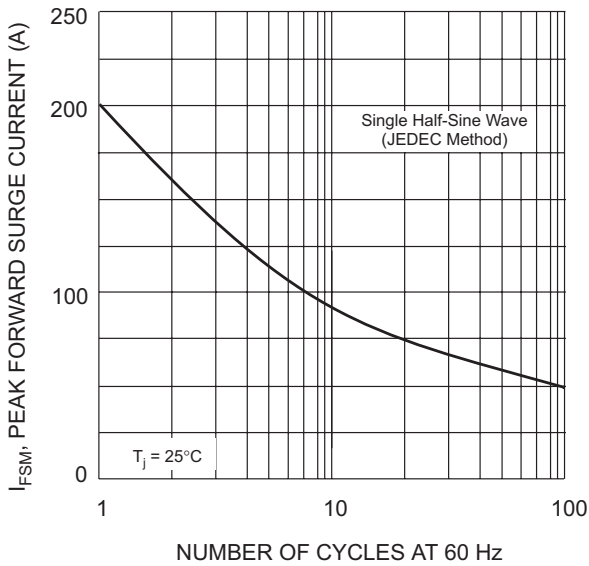


Fig. 3 Maximum Non-Repetitive Surge Current

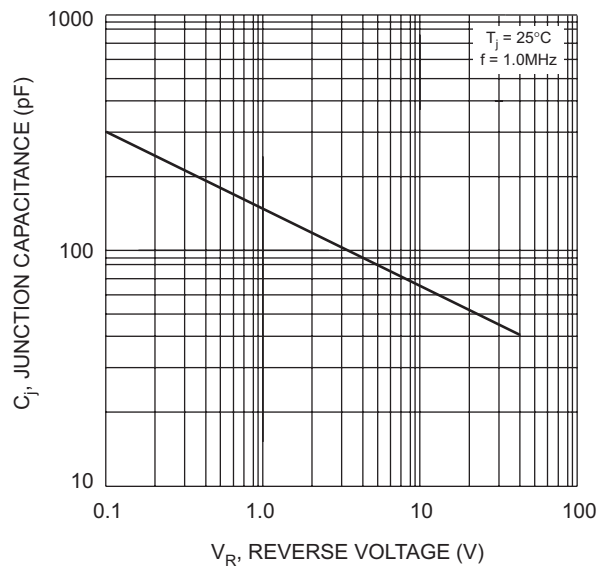


Fig. 4 Typical Junction Capacitance

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
GBU8A	SIL Bridge	25 Units/Tube
GBU8B	SIL Bridge	25 Units/Tube
GBU8D	SIL Bridge	25 Units/Tube
GBU8G	SIL Bridge	25 Units/Tube
GBU8J	SIL Bridge	25 Units/Tube
GBU8K	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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