

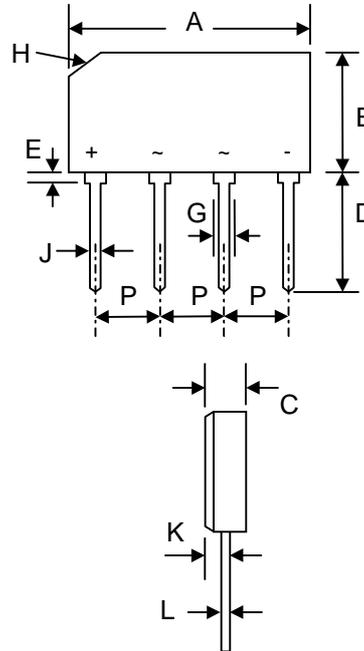
VOLTAGE RANGE: 50 - 1000V
CURRENT: 4.0 A

Features

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

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 2.0 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



GBL		
Dim	Min	Max
A	19.6	20.6
B	10.7	11.2
C	3.8	4.7
D	15.7	17.3
E	1.65	2.4
G	1.65	2.0
H	3.17 x 45°	
J	0.90	1.14
K	1.14	1.52
L	0.38	0.51
P	4.8	5.3
All Dimensions in mm		

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	GBL 005	GBL 01	GBL 02	GBL 04	GBL 06	GBL 08	GBL 10	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V _{RWM}								
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current @ T _C = 50°C	I _O	4.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150							A
Forward Voltage (per bridge) @ I _F = 4.0A	V _{FM}	1.0							V
Peak Reverse Current @ T _A = 25°C At Rated DC Blocking Voltage @ T _C = 150°C	I _R	10 1.0							μA mA
Typical Thermal Resistance (per leg) (Note 1)	R _{θJA}	22							°C/W
Typical Thermal Resistance (per leg) (Note 2)	R _{θJC}	3.5							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

Note: 1. Thermal resistance junction to ambient, mounted on 7.5 x 7.5 x 0.3cm thick AL plate.
 2. Thermal resistance junction to case, mounted on PCB at 9.5mm lead length.

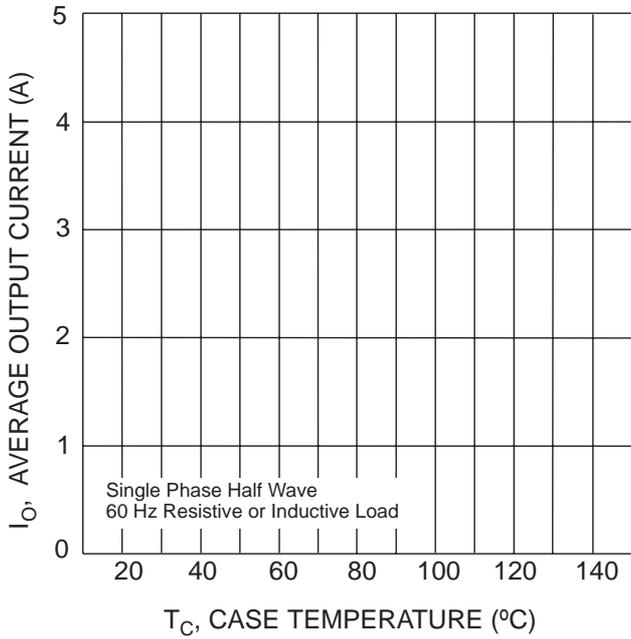


Fig. 1 Forward Current Derating Curve

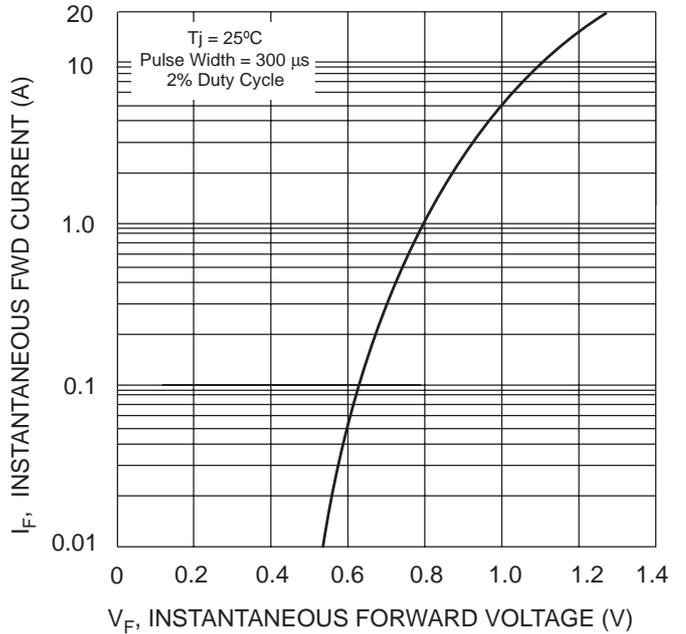


Fig. 2 Typical Forward Characteristics, per element

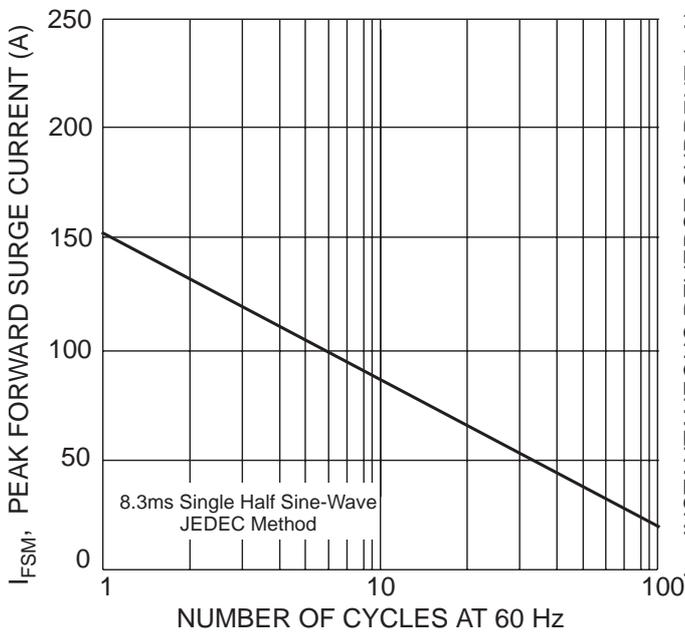


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

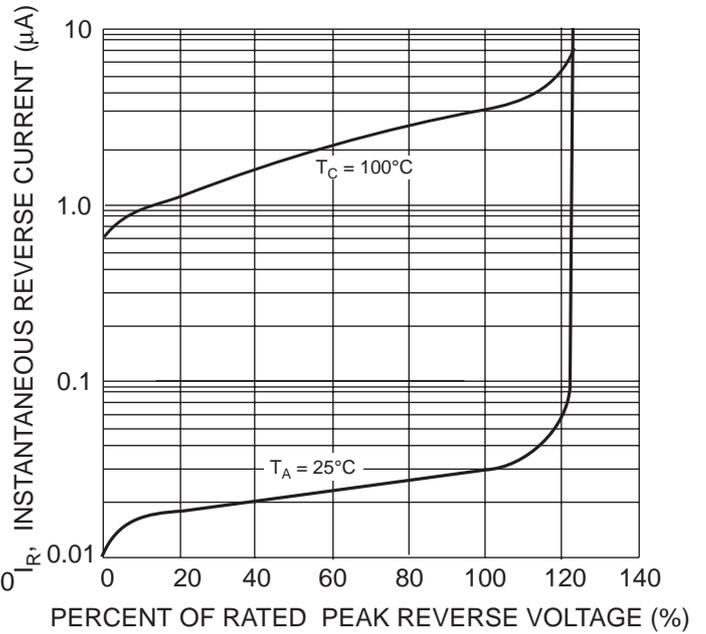


Fig. 4 Typical Reverse Characteristics, per element