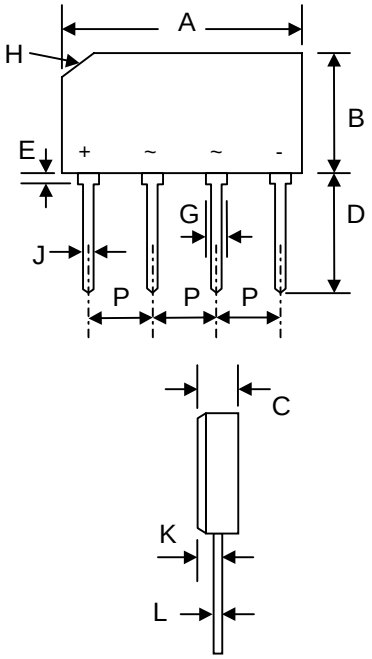
GBL005 – GBL10

4.0A 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



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		

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

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 Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	V
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)	$R_{\theta JA}$	22							°C/W
Typical Thermal Resistance (per leg) (Note 2)	$R_{\theta JC}$	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.

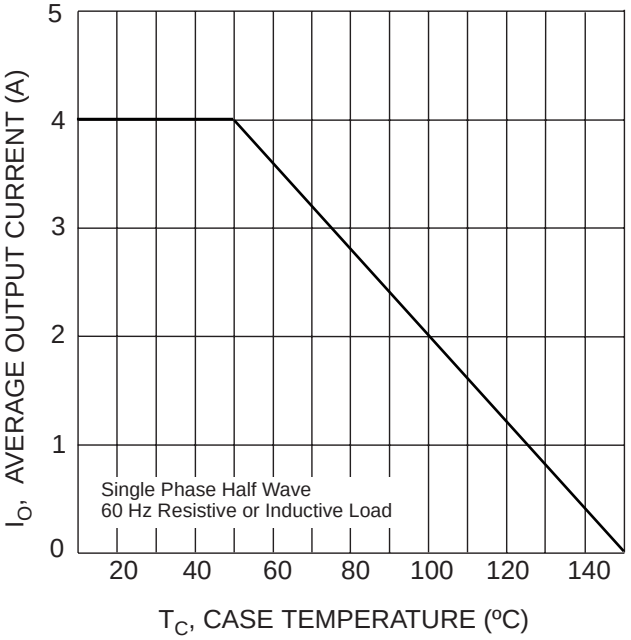


Fig. 1 Forward Current Derating Curve

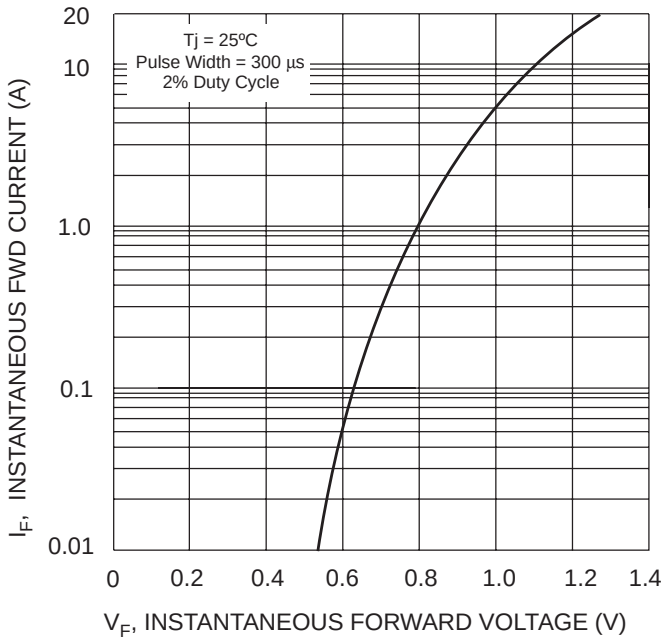


Fig. 2 Typical Forward Characteristics, per element

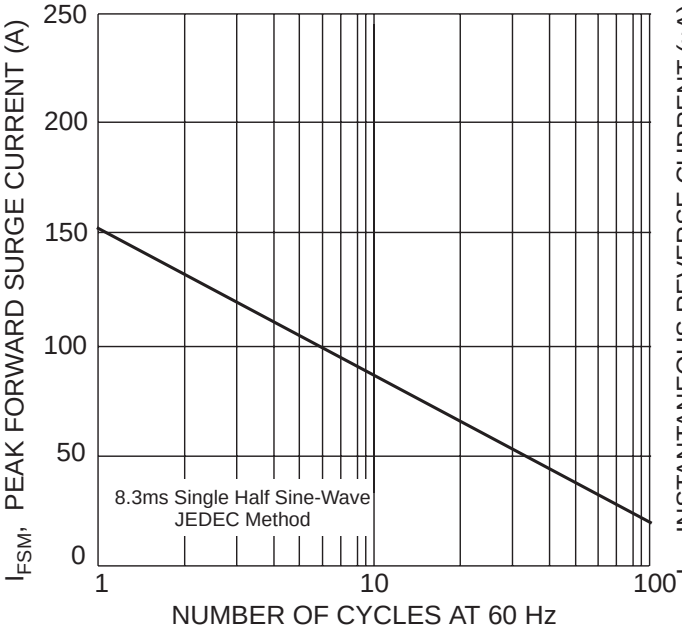


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

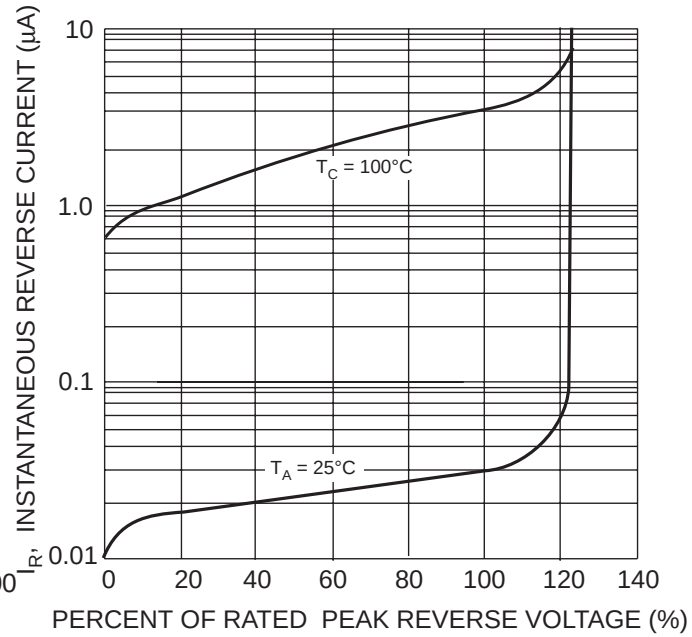


Fig. 4 Typical Reverse Characteristics, per element

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
GBL005	SIL Bridge	500 Units/Box
GBL01	SIL Bridge	500 Units/Box
GBL02	SIL Bridge	500 Units/Box
GBL04	SIL Bridge	500 Units/Box
GBL06	SIL Bridge	500 Units/Box
GBL08	SIL Bridge	500 Units/Box
GBL10	SIL Bridge	500 Units/Box

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

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