SEMICONDUCTOR

Data Sheet 1331, Rev.B

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- UL Recognized File # E223064

Mechanical Data

Case: Molded Plastic

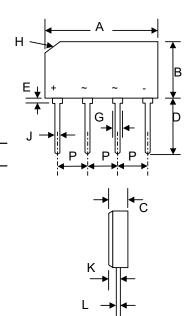
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on Body

• Weight: 2.0 grams (approx.)

Mounting Position: Any

Marking: Type Number



GBL									
Dim	Min	Max	Min	Max					
Α	20.7	20.9	0.815	0.823					
В	10.4	10.7	0.409	0.421					
С	3.2	3.6	0.126	0.142					
D	17.5	18.5	0.689	0.728					
Е	1.50	2.2	0.059	0.087					
G	2.12	2.4	0.083	0.094					
H	3.17	x 45°	0.125 x 45°						
7	0.90	1.20	0.035	0.047					
K	1.15	1.55	0.045	0.061					
L	0.45	0.65	0.018	0.026					
Р	4.8	5.3	0.189	0.209					
	ln ı	mm	In inch						

Maximum Ratings and Electrical Characteristics @TA=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	VRRM VRWM VR	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current @T _A = 50°C	lo	4.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150							А
Forward Voltage (per bridge) @I _F = 4.0A	VFM	1.0							V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _C = 150°C	IR	10 1.0							μA mA
Typical Thermal Resistance (per leg) (Note 1)	R_{θ} JA	22							°C/W
Typical Thermal Resistance (per leg) (Note 2)	R⊕JC	3.5							°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 to +150							°C

- Note: 1. Thermal resistance junction to ambient, mounted on $7.5 \times 7.5 \times 0.3 \text{cm}$ thick AL plate.
 - 2. Thermal resistance junction to case, mounted on PCB at 9.5mm lead length.

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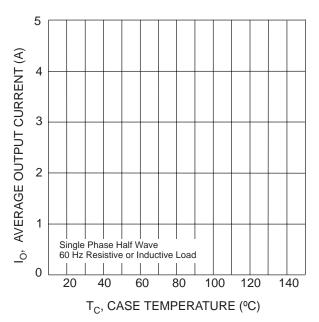


Fig. 1 Forward Current Derating Curve

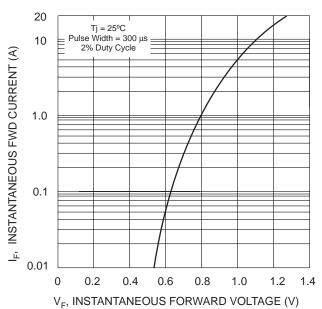


Fig. 2 Typical Forward Characteristics, per element

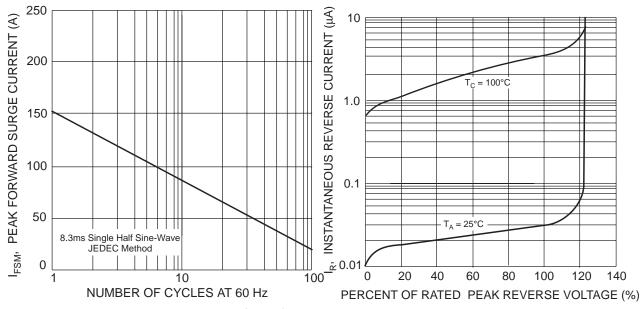


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

Fig. 4 Typical Reverse Characteristics, per element

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4.0A GLASS PASSIVATED BRIDGE RECTIFIER

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