

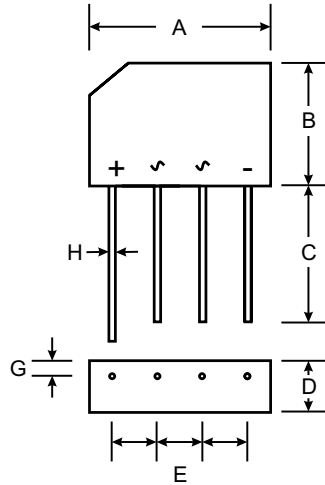
NOT RECOMMENDED FOR NEW DESIGN
USE GBU4005 - GBU410

Features

- High Case Dielectric Strength of 1500V
- Low Forward Voltage Drop, High Current Capability
- Surge Overload Rating to 150A Peak
- Ideal for Printed Circuit Board Application
- Plastic Material - UL Flammability Classification 94V-0
- UL Listed Under Recognized Component Index, File Number E95060

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads, Solderable per MIL-STD-202, Method 208
- Polarity: Symbols Marked on Case
- Approx. Weight: 5.6 grams
- Marking: Type Number



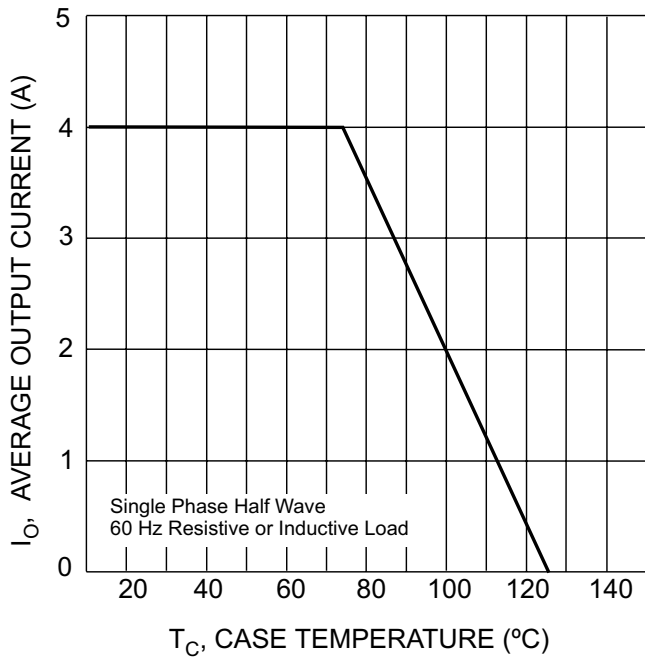
PBL		
Dim	Min	Max
A	18.50	19.50
B	15.40	16.40
C	19.00	—
D	6.20	6.50
E	4.60	5.60
G	1.50	2.00
H	1.30 Typical	
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

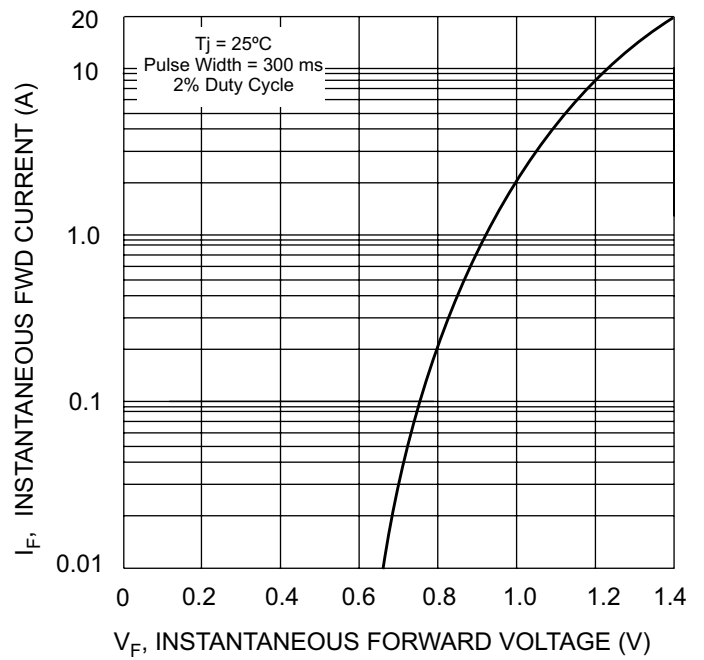
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	PBL 401	PBL 402	PBL 403	PBL 404	PBL 405	PBL 406	PBL 407	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 = 75°C	I _O	4.0							A
Non-Repetitive Peak Forward Surge Current, 8.3 ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150							A
Forward Voltage per element @ I _F = 3.0A	V _{FM}	1.1							V
Peak Reverse Current at Rated DC Blocking Voltage @ T _C = 25°C @ T _C = 100°C	I _R	10 1.0							μA mA
I ² t Rating for Fusing (t < 8.3ms) (Note 2)	I ² t	166							A ² s
Typical Thermal Resistance, Junction to Case (Note 1)	R _{θJC}	19							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +125							°C

- Notes: 1. Thermal resistance from junction to case per element mounted on PC board with 13 x 13 x 0.03mm land areas.
2. Non-repetitive for t > 1ms and < 8.3ms.



T_C , CASE TEMPERATURE (°C)
Fig. 1 Forward Current Derating Curve



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics

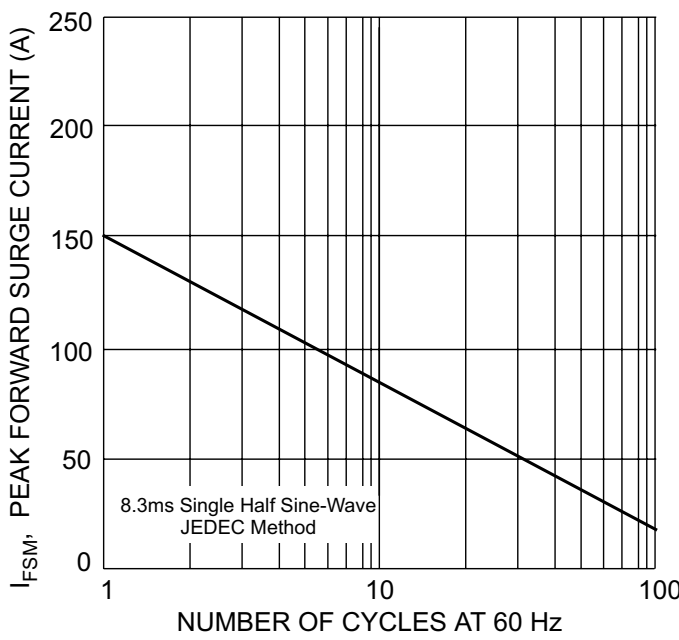


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

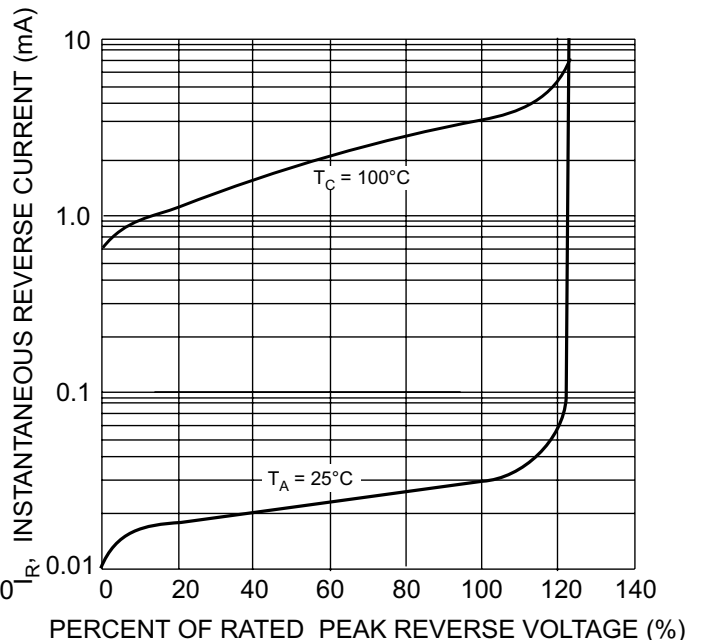


Fig. 4 Typical Reverse Characteristics, per element

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