



PBU1001 - PBU1007

10A BRIDGE RECTIFIER

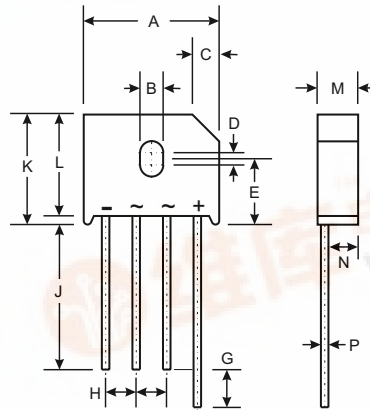
NOT RECOMMENDED FOR NEW DESIGN
USE GBU10005 - GBU1010

Features

- Low Forward Voltage Drop, High Current Capability
- Surge Overload Rating to 300A Peak
- Ideal for Printed Circuit Board Applications
- Case to Terminal Isolation Voltage 1500V
- Plastic Material: UL Flammability Classification Rating 94V-0
- UL Listed Under Recognized Component Index, File Number E95060

Mechanical Data

- Case: Molded Plastic
- Terminals: Silver Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting: Through Hole for #6 Screw
- Mounting Torque: 5.0 Inch-pounds Maximum
- Weight: 8.0 grams (approx.)
- Marking: Type Number



PBU		
Dim	Min	Max
A	22.70	23.70
B	3.80	4.10
C	4.20	4.70
D	1.70	2.20
E	10.30	11.30
G	4.50	6.80
H	4.80	5.80
J	25.40	—
K	—	19.30
L	16.80	17.80
M	6.60	7.10
N	4.70	5.20
P	1.20	1.30
All Dimensions in mm		

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

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

Characteristic	Symbol	PBU 1001	PBU 1002	PBU 1003	PBU 1004	PBU 1005	PBU 1006	PBU 1007	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 = 100°C	I _O	10							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	300							A
Forward Voltage (per element) @ I _F = 5.0A	V _{FM}	1.0							V
Peak Reverse Current @ T _C = 25°C	I _{RM}	10							μA
at Rated DC Blocking Voltage @ T _C = 125°C		1.0							mA
I ² t Rating for Fusing (Note 2)	I ² t	373							A ² s
Typical Thermal Resistance Junction to Case (Note 1)	R _{θJC}	8.0							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150							°C

Notes: 1. Thermal resistance junction to case mounted on heatsink.
2. Non-repetitive, for t > 1.0ms and t < 8.3ms.



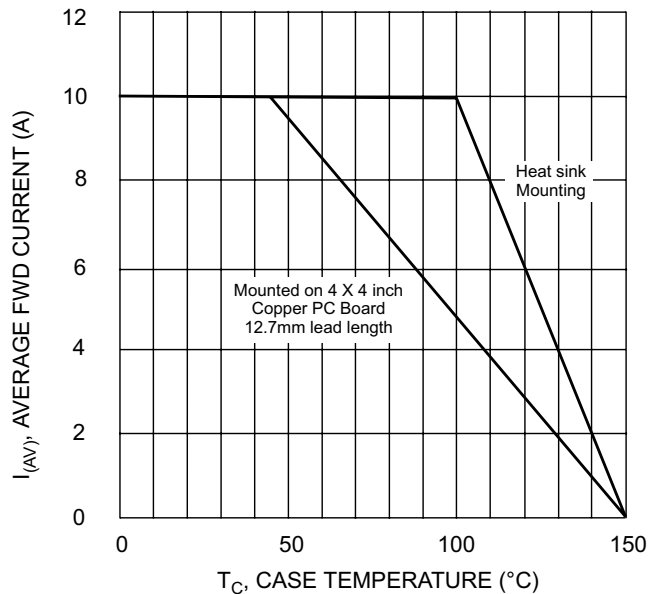


Fig. 1 Forward Current Derating Curve

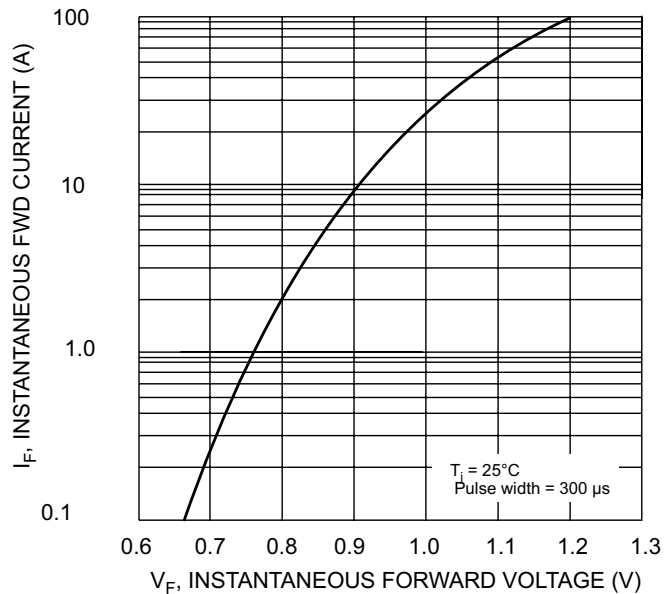


Fig. 2 Typical Forward Characteristics

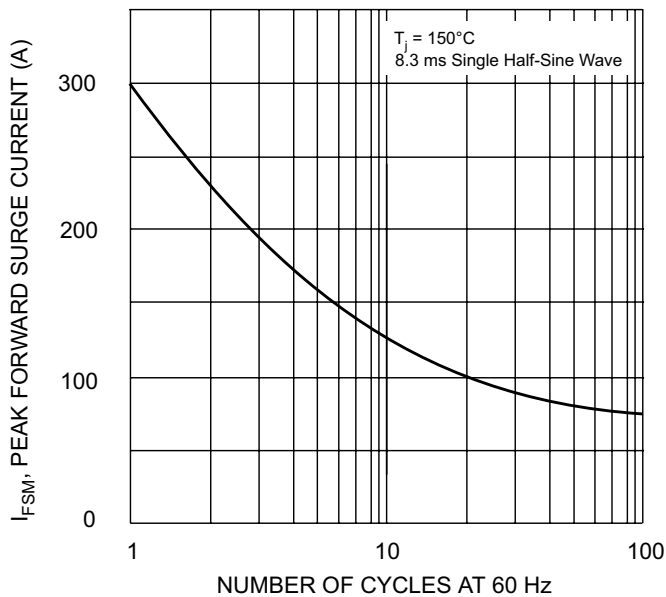


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

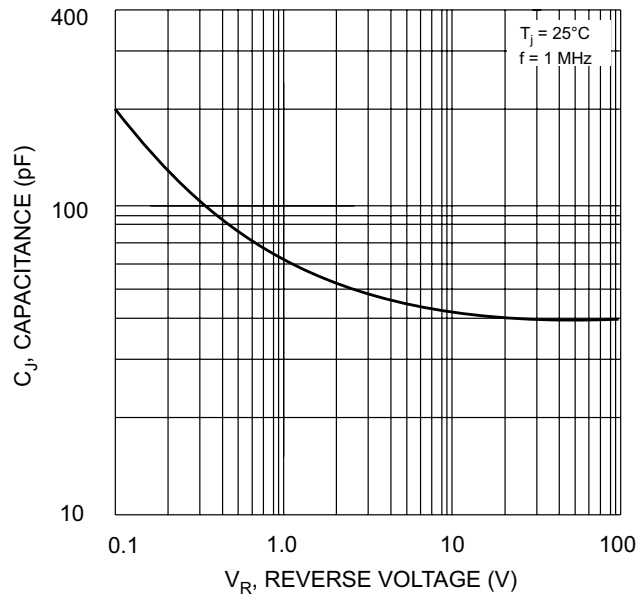


Fig. 4 Typical Junction Capacitance per element

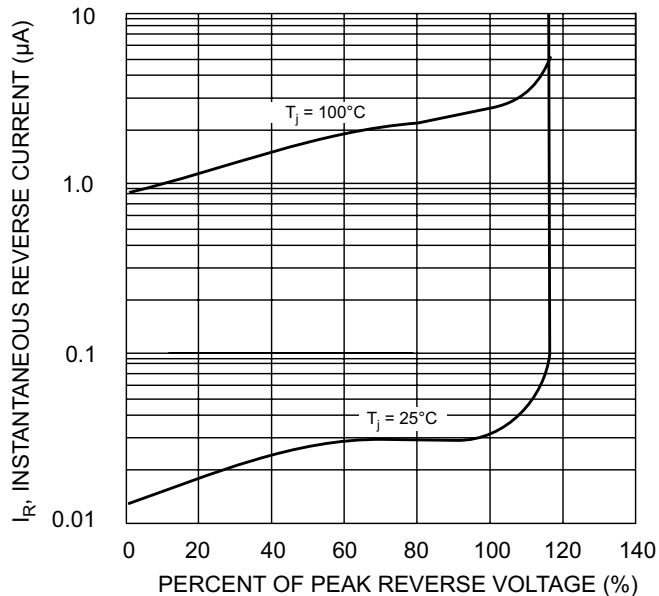


Fig. 5 Typical Reverse Characteristics