

PBU801 - PBU807

8.0A BRIDGE RECTIFIER

NOT RECOMMENDED FOR NEW DESIGN **USE GBU8005 - GBU810**

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
- Lead Free Finish, RoHS Compliant (Date Code 0514+) (Note 3)

PBU						
Dim	Min	Max				
Α	22.70	23.70				
В	3.80	4.10				
С	4.20	4.70				
D	1.70	2.20				
E	10.30	11.30				
G	4.50	6.80				
Н	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						

Mechanical Data

Features

- Case: Molded Plastic
- Terminals: 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

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

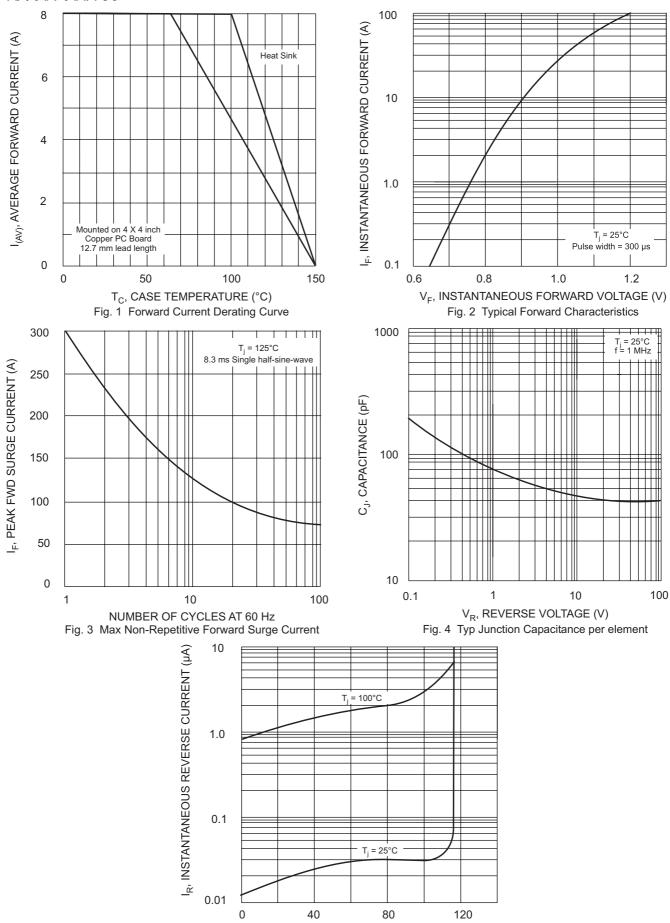
Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	PBU 801	PBU 802	PBU 803	PBU 804	PBU 805	PBU 806	PBU 807	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	٧
Average Rectified Output Current @ T _C = 10	0°C I _O			•	8.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated lo (JEDEC Method)	ad I _{FSM}				300				А
Forward Voltage (per element) @ I _F =	2.0A V _{FM}				1.0				٧
Peak Reverse Current @ T _C = 2 at Rated DC Blocking Voltage @ T _C = 12					10 1.0				μA mA
I ² t Rating for Fusing (No	te 2) I ² t				373				A ² s
Typical Thermal Resistance Junction to Case (No	te 1) R _{θJC}				7.5				°C/W
Operating and Storage Temperature Range		-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.
- 3. EC Directive 2002/95/EC (RoHS) revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.





PERCENT OF PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics



Ordering Information (Note 4)

Device	Packaging	Shipping
PBU801	PBU	0.5K Bulk
PBU802	PBU	0.5K Bulk
PBU803	PBU	0.5K Bulk
PBU804	PBU	0.5K Bulk
PBU805	PBU	0.5K Bulk
PBU806	PBU	0.5K Bulk
PBU807	PBU	0.5K Bulk

Notes: 4 . For packaging details, visit our website at http://www.diodes.com/datasheets/ap2008.pdf

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