

10A BRIDGE RECTIFIER



NOT RECOMMENDED FOR NEW DESIGN USE GBU10005 - GBU1010

- 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)

Mechanical Data

Features

- 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				
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					
К		19.30				
L	16.80	17.80				
М	6.60	7.10				
N	4.70	5.20				
Р	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 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 @ $T_C = 100^{\circ}C$	lo	10				•	Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}				300				А
Forward Voltage (per element) @ I _F = 5.0A	A V _{FM} 1.0			V					
	age $\begin{bmatrix} @ T_C = 25^{\circ}C \\ @ T_C = 125^{\circ}C \end{bmatrix}$ I_{RM} 10 1.0			μA mA					
I ² t Rating for Fusing (Note 2)	l ² t				373				A ² s
Typical Thermal Resistance Junction to Case (Note 1)	Rejc				8.0				°C/W
Operating and Storage Temperature Range	T _j , T _{STG}			-	65 to +15	0			°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.







Ordering Information (Note 4)

Device	Packaging	Shipping
PBU1001	PBU	0.5K Bulk
PBU1002	PBU	0.5K Bulk
PBU1003	PBU	0.5K Bulk
PBU1004	PBU	0.5K Bulk
PBU1005	PBU	0.5K Bulk
PBU1006	PBU	0.5K Bulk
PBU1007	PBU	0.5K Bulk

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

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