

PBU1001 - PBU1007

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

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					
Р	1.20	1.30					
All Dimensions in mm							

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

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		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		35	70	140	280	420	560	700	V
Average Rectified Output Current @ T _C = 100°C	l _O	10						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		300						А	
Forward Voltage (per element) @ I _F = 5.0/	V _{FM}	1.0					V		
Peak Reverse Current @ $T_C = 25^{\circ}C$ at Rated DC Blocking Voltage @ $T_C = 125^{\circ}C$		10 1.0						μA mA	
I ² t Rating for Fusing (Note 2)		373							A ² s
Typical Thermal Resistance Junction to Case (Note 1) R _θ JC				8.0				°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.



