

## PBL401 - PBL407

### **4.0A BRIDGE RECTIFIER**

# NOT RECOMMENDED FOR NEW DESIGN USE GBU4005 - GBU410

- 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

PBL							
Dim	Min	Max					
Α	18.50	19.50					
В	15.40	16.40					
С	19.00	_					
D	6.20	6.50					
E	4.60	5.60					
G	1.50	2.00					
Н	1.30 Typical						
All Dimensions in mm							

## **Mechanical Data**

**Features** 

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

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

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

Characteristic		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 <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		35	70	140	280	420	560	700	V
Average Rectified Output Current @ T <sub>C</sub> = 75°	C Io	4.0					Α		
Non-Repetitive Peak Forward Surge Current, 8.3 ms single half-sine-wave superimposed on rated load (JEDEC method)		150							А
Forward Voltage per element @ I <sub>F</sub> = 3.0A		1.1							V
Peak Reverse Current @T <sub>C</sub> = 25°C at Rated DC Blocking Voltage @T <sub>C</sub> = 100°C		10 1.0							μA mA
I <sup>2</sup> t Rating for Fusing (t < 8.3ms) (Note 2)		166							A <sup>2</sup> s
Typical Thermal Resistance, Junction to Case (Note 1)		19							°C/W
Operating and Storage Temperature Range		-65 to +125							°C

Notes: 1. Thermal resistance rom junction to case per element mounted on PC board with 13 x 13 x 0.03mm land areas.

2. Non-repetitive for t > 1 ms and < 8.3 ms.



