20 STERN AVE. SPRINGFIELD, NEW JERSEY 07081 U.S.A.

# **PBPC801 - PBPC807**

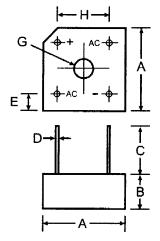
### 8.0A BRIDGE RECTIFIER

#### Features

- Diffused Junction
- High Current Capability
- Surge Overload Rating to 125A Peak
- High Case Dielectric Strength of 1500V
- Ideal for Printed Circuit Board Application
- Plastic Material UL Flammability Classification 94V-0

#### **Mechanical Data**

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Marked on Body
- Mounting: Through Hole for #6 Screw
- Mounting Torque: 5.0 Inch-pounds Maximum
- Weight: 5.4 grams (approx)
- Mounting Position: Any
- Marking: Type Number



PBPC-8							
Dim	Min	Max					
A	18.54	19.56					
В	6.35	7.60					
С	22.20	-					
D	1.27 Ø Typical						
E	5.33	7.37					
G	3.60 Ø	<b>4.00</b> ∅					
н	12.70 Typical						
J	2.38 X 45° Typical						
All Dimensions in mm							

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#### Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

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

Characteristic	Symbol	PBPC 801	PBPC 802	PBPC 803	PBPC 804	PBPC 805	PBPC 806	PBPC 807	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		50	100	200	400	600	800	1000	v
RMS Reverse Voltage		35	70	140	280	420	560	700	v
$ \begin{array}{llllllllllllllllllllllllllllllllllll$			8.0 6.0						
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		•	125						A
Forward Voltage (per element) @ I <sub>F</sub> = 4.0A	VFM				1.1				v
$\begin{array}{llllllllllllllllllllllllllllllllllll$		10 1.0						μA mA	
I <sup>2</sup> t Rating for Fusing (t<8.3ms) (Note 3)		64							A <sup>2</sup> s
Typical Junction Capacitance (Note 4)		100							pF
Typical Thermal Resistance Junction to Case (per element)		9.4							кл
Operating and Storage Temperature Range		-65 to +125						°C	



- Notes: 1. Mounted on metal chassis.
  - 2. Mounted on PC board FR-4 material.
  - 3. Non-repetitive, for t > 1.0ms and < 8.3ms.
  - 4. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

## **Quality Semi-Conductors**