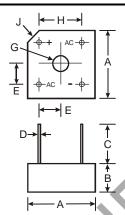
Features

- **High Current Capability**
- Surge Overload Rating to 125A Peak
- High Case Dielectric Strength of 1500V
- Ideal for Printed Circuit Board Application
- UL Listed Under Recognized Component Index, File Number E94661

Mechanical Data

- Case: PBPC-8
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- 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
- Ordering Information: See Page 2
- Marking: Type Number
- Weight: 5.4 grams (approximate)



PBPC-8					
Dim	Min	Max			
Α	18.54	19.56			
В	6.35	7.60			
С	22.20	_			
D	1.27 Ø Typical				
т	5.33	7.37			
O	3.60 Ø	4.00 ∅			
H	12.70 Typical				
J	2.38 X 45° Typical				
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics

@T_A = 25°C unless otherwise specified

Single phase, half wave, 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	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 (Note 1) @ $T_C = 50^{\circ}$ (Note 2) @ $T_C = 50^{\circ}$ (Note 2)	A 10 3000				8.0 6.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load	IFSM				125				Α
Forward Voltage (per element) @ I _F = 4.0	A V _{FM}				1.1				V
Peak Reverse Current @ $T_C = 25^{\circ}$ 0 at Rated DC Blocking Voltage (per element) @ $T_C = 100^{\circ}$	l ln				10 1.0				μA mA
I ² t Rating for Fusing (t<8.3ms) (Note 3) I ² t				64				A^2s
Typical Total Capacitance (Note 4) C _T				100				pF
Typical Thermal Resistance Junction to Case (per element)	$R_{\theta JC}$				9.4				°C/W
Operating and Storage Temperature Range	T _j , T _{STG}			-(65 to +12	25			°C

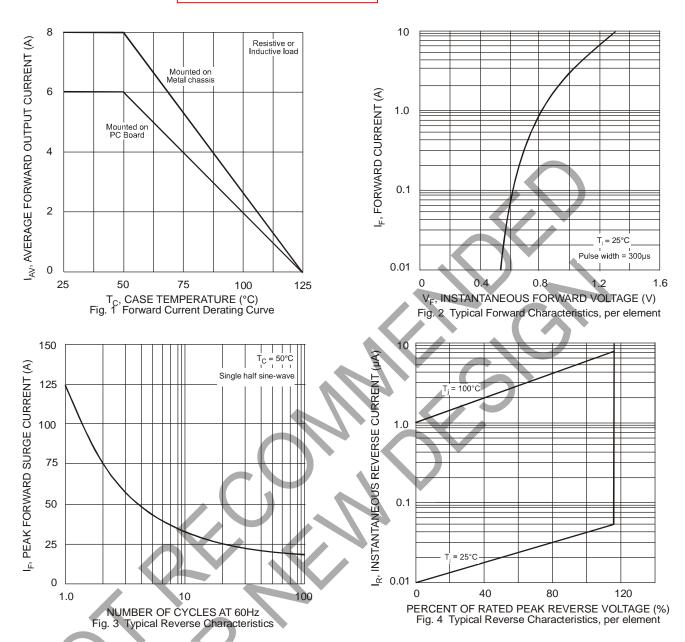
Notes:

- Mounted on metal chassis. Mounted on PC board FR-4 material.
- Non-repetitive, for t > 1.0ms and < 8.3ms.
- Per element, measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

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Ordering Information (Note 5)

Device	Packaging	Shipping
PBPC801	PBPC-8	150/Box
PBPC802	PBPC-8	150/Box
PBPC803	PBPC-8	150/Box
PBPC804	PBPC-8	150/Box
PBPC805	PBPC-8	150/Box
PBPC806	PBPC-8	150/Box
PBPC807	PBPC-8	150/Box

Notes: 5. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02008.pdf.



NOT RECOMMENDED FOR NEW DESIGN

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