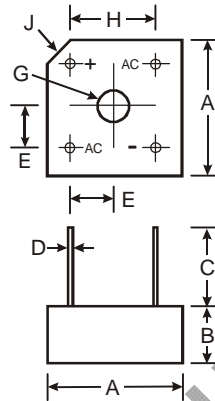


### Features

- 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
A	18.54	19.56
B	6.35	7.60
C	22.20	—
D	1.27 ∅ Typical	
E	5.33	7.37
G	3.60 ∅	4.00 ∅
H	12.70 Typical	
J	2.38 X 45° Typical	
<b>All Dimensions in mm</b>		

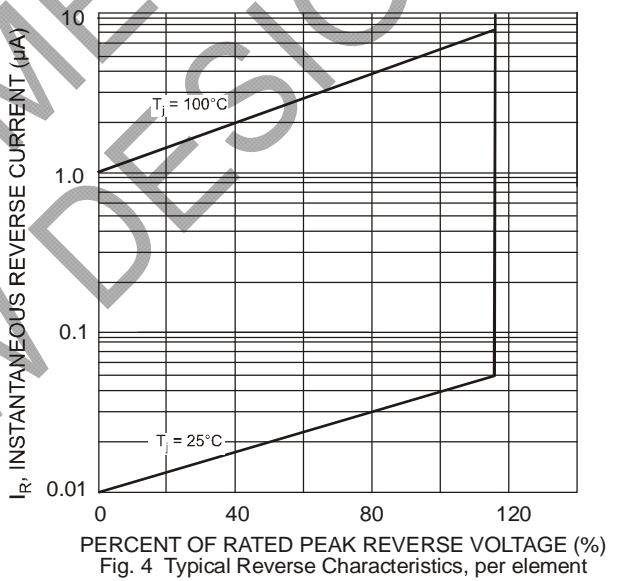
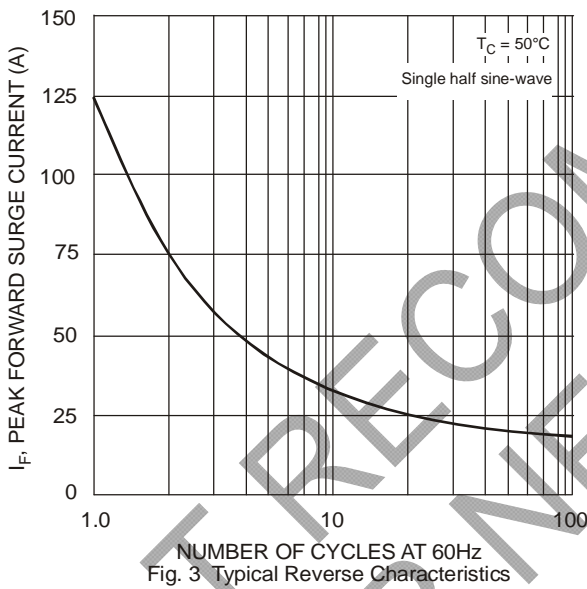
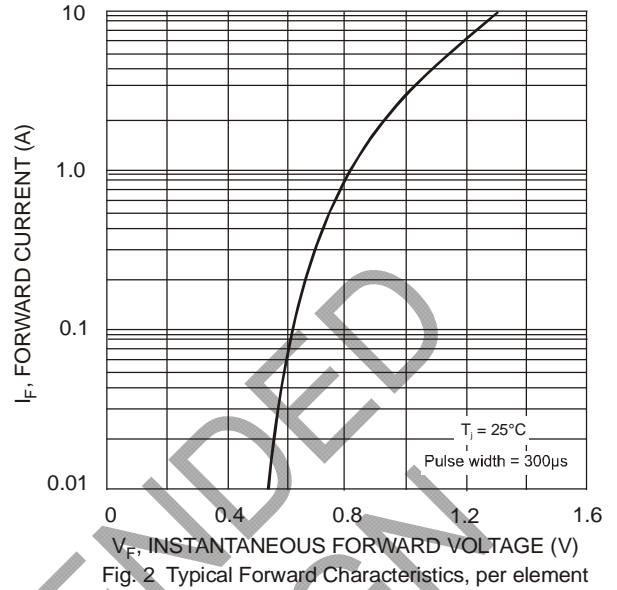
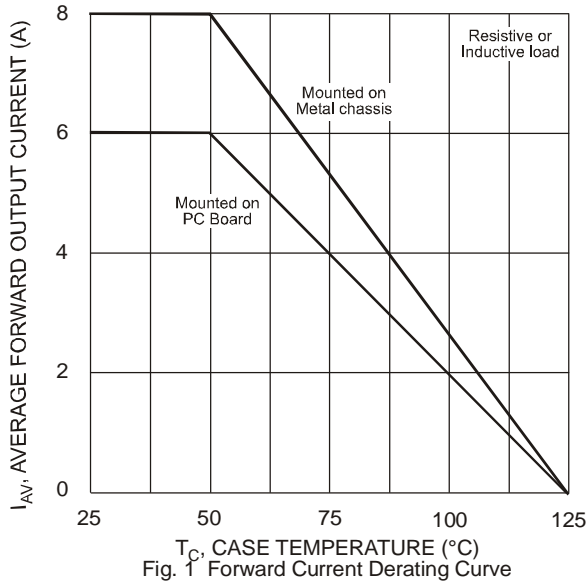
### Maximum Ratings and Electrical Characteristics

@T<sub>A</sub> = 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	V <sub>RRM</sub>									
Working Peak Reverse Voltage	V <sub>RWM</sub>	50	100	200	400	600	800	1000	V	
DC Blocking Voltage	V <sub>R</sub>									
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V	
Average Rectified Output Current	I <sub>O</sub>	(Note 1) @ T <sub>C</sub> = 50°C				8.0				A
		(Note 2) @ T <sub>C</sub> = 50°C				6.0				
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load	I <sub>FSM</sub>					125				A
Forward Voltage (per element)	V <sub>FM</sub>					1.1				V
Peak Reverse Current	I <sub>R</sub>					10				μA
at Rated DC Blocking Voltage (per element)						1.0				mA
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t					64				A <sup>2</sup> s
Typical Total Capacitance	C <sub>T</sub>					100				pF
Typical Thermal Resistance Junction to Case (per element)	R <sub>θJC</sub>					9.4				°C/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>					-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. Per element, measured at 1.0 MHz and applied reverse voltage of 4.0V DC.



**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>.

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