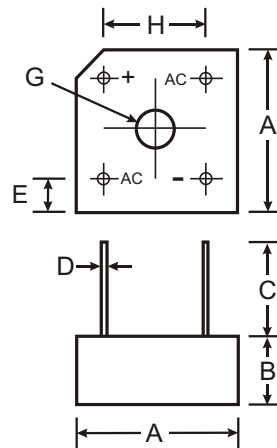


Features

High Current Capability
 Surge Overload Rating to 150A 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 Last Page
 Marking: Type Number
 Weight: 3.8 grams (approximate)



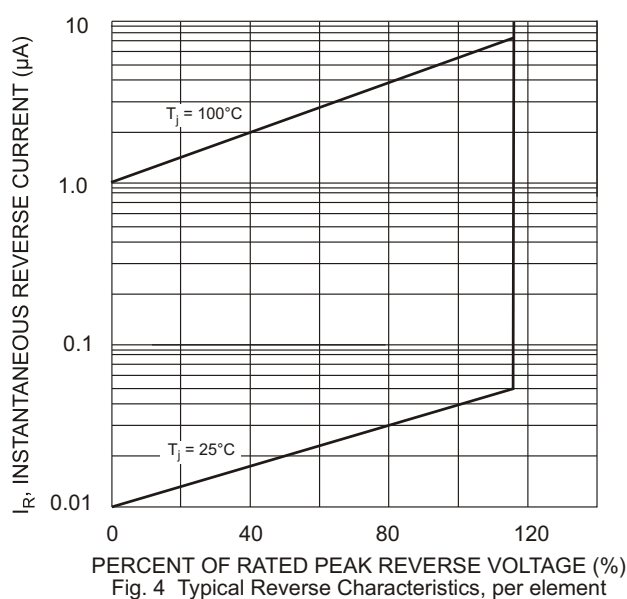
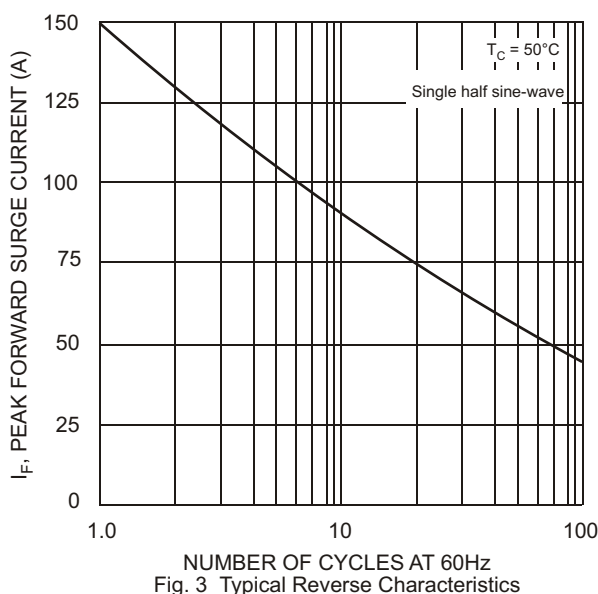
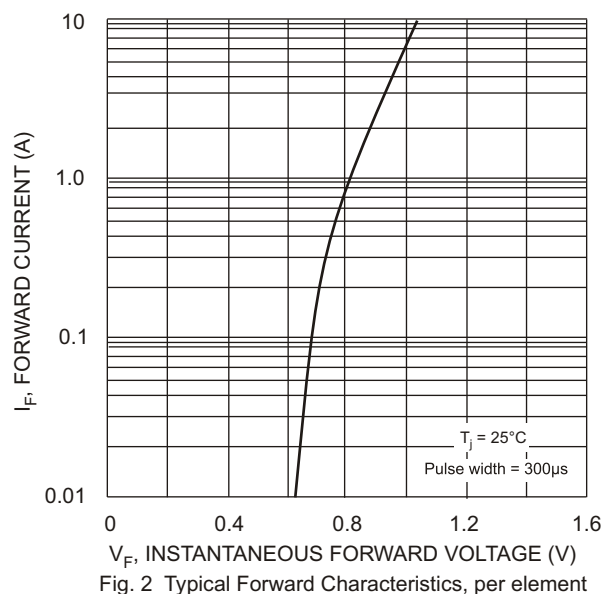
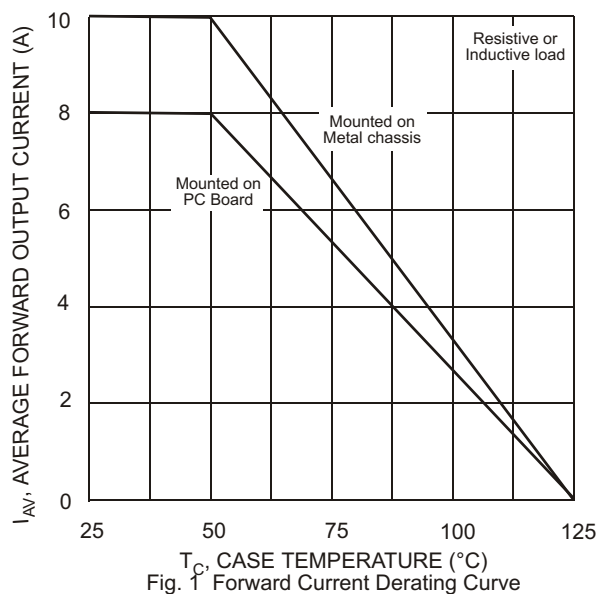
PBPC-8		
Dim	Min	Max
A	18.54	19.56
B	6.35	7.60
C	22.20	—
D	1.27	Typical
E	5.33	7.37
G	3.60	4.00
H	12.70	Typical
J	2.38 X 45°	Typical
All Dimensions in mm		

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	Symbol	PBPC 1001	PBPC 1002	PBPC 1003	PBPC 1004	PBPC 1005	PBPC 1006	PBPC 1007	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V _{RWM}								
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ T _C = 50°C (Note 2) @ T _C = 50°C	I _O	10 8.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150							A
Forward Voltage (per element) @ I _F = 5.0A	V _{FM}	1.1							V
Peak Reverse Current @ T _C = 25°C at Rated DC Blocking Voltage (per element) @ T _C = 100°C	I _R	10 1.0							μA mA
I ² t Rating for Fusing (t<8.3ms) (Note 3)	I ² t	64							A ² s
Typical Total Capacitance, per element (Note 4)	C _T	110							pF
Typical Thermal Resistance Junction to Case (per element)	R _{JC}	7.5							°C/W
Operating and Storage Temperature Range	T _j , T _{STG}	-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
PBPC1001	PBPC-8	150/Box
PBPC1002	PBPC-8	150/Box
PBPC1003	PBPC-8	150/Box
PBPC1004	PBPC-8	150/Box
PBPC1005	PBPC-8	150/Box
PBPC1006	PBPC-8	150/Box
PBPC1007	PBPC-8	150/Box

Notes: 5. For packaging details, visit our website at <http://www.diodes.com/datasheets/ap02008.pdf>.

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