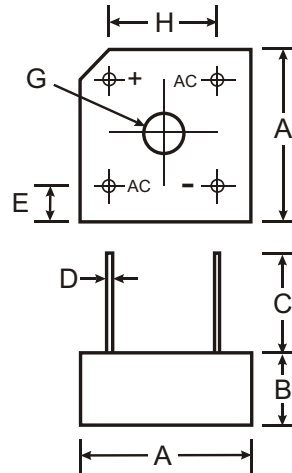


Features

High Current Capability
 Surge Overload Rating to 50A 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-3
 Case Material: Molded Plastic. UL Flammability Classification 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 Screw
 Mounting Torque: 5.0 Inch-pounds Maximum
 Ordering Information: See Last Page
 Marking: Type Number
 Weight: 3.8 grams (approximate)



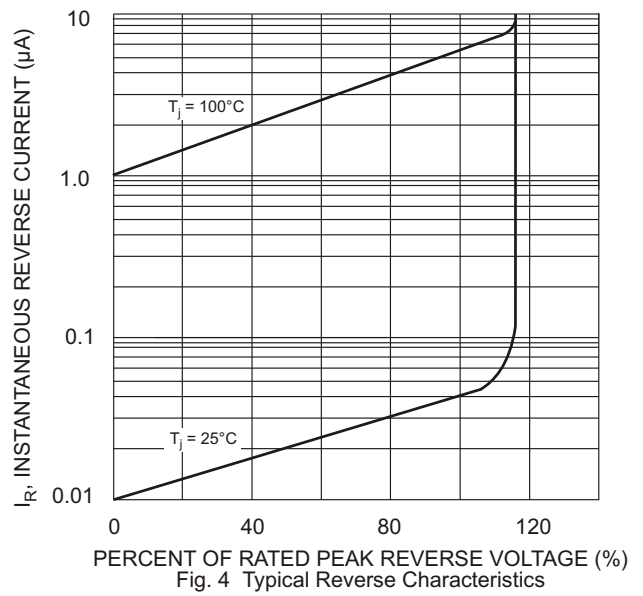
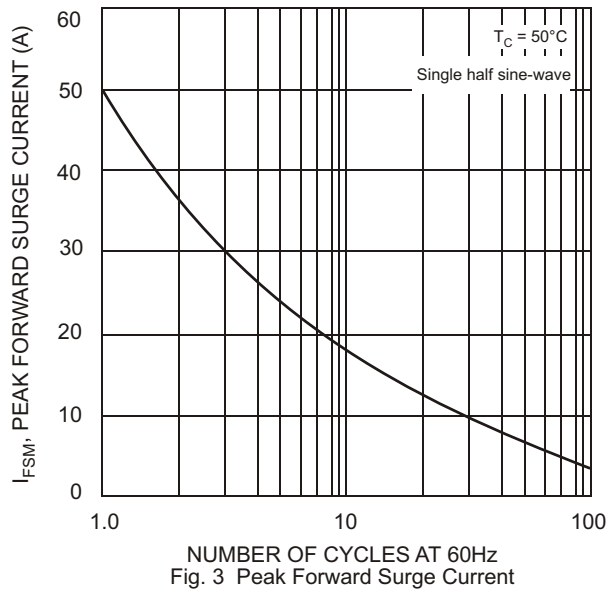
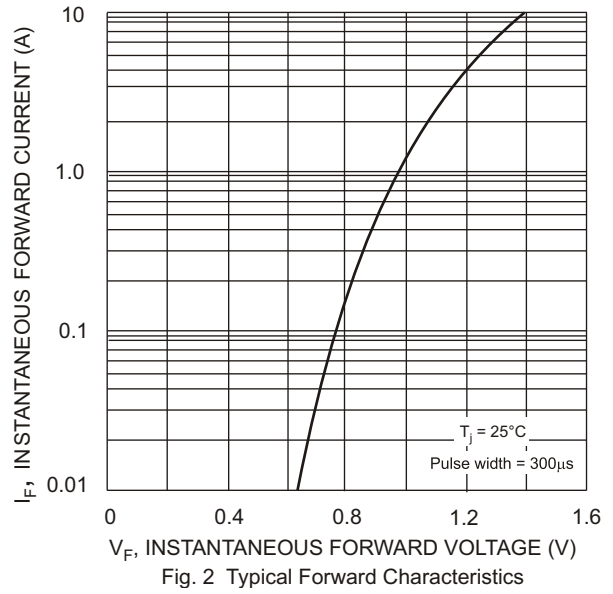
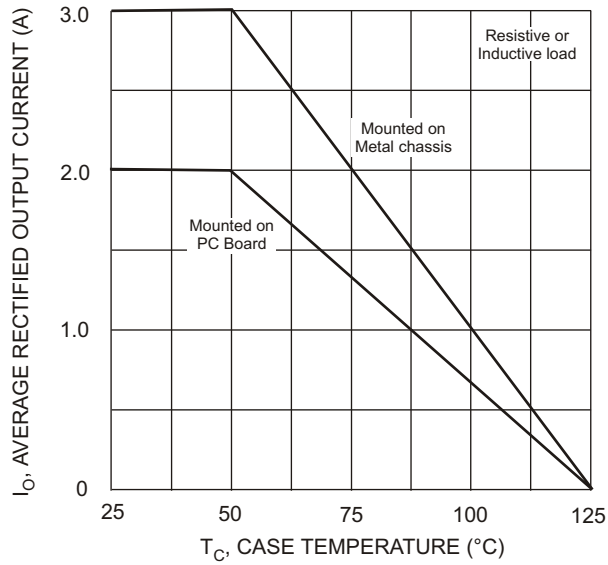
PBPC-3		
Dim	Min	Max
A	14.73	15.75
B	5.84	6.86
C	19.00	—
D	0.76	Typical
E	1.70	3.20
G	Hole for screw	
	3.60	4.00
H	10.30	11.30
All Dimensions in mm		

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 301	PBPC 302	PBPC 303	PBPC 304	PBPC 305	PBPC 306	PBPC 307	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	3.0 2.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50							A
Forward Voltage (per element) @ I _F = 1.5A	V _{FM}	1.2							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	10							A ² s
Typical Total Capacitance (Note 4)	C _T	55							pF
Typical Thermal Resistance Junction to Case (per element)	R _{JC}	25							°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 > 1ms and < 8.3ms.
 4. Per element, measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

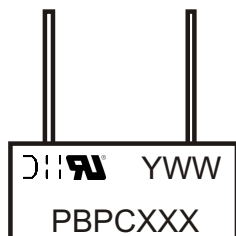


Ordering Information (Notes 5 & 6)

Device*	Packaging	Shipping
PBPC30x	PBPC-3	200/Box

* x = Device type, e.g. PBPC301 or PBPC302, etc.

- Notes:
5. For Packaging Details, visit our website at <http://www.diodes.com/datasheets/ap02008.pdf>.
 6. For lead free terminal plating part number, please add "-F" suffix to part number above. Example: PBPC304-F.

Marking Information

𐄂𐄂𐄂 = Manufacturers' code marking
UL = UL Recognized Component Mark
XXX = Product type marking code, ex: PBPC307
YWW = Date code marking
Y = Last digit of year ex: 2 for 2002
WW = Week code 01 to 52

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