



PBPC1001 - PBPC1007

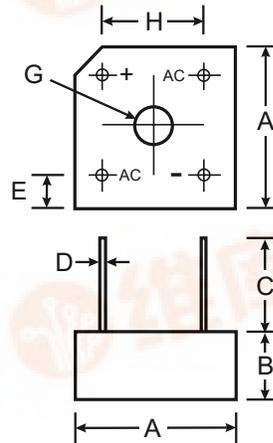
10A BRIDGE RECTIFIER

Features

- Diffused Junction
- High Current Capability
- Surge Overload Rating to 150A Peak
- High Case Dielectric Strength of 1500V
- Ideal for Printed Circuit Board Application
- Plastic Material - UL Flammability Classification 94V-0
- UL Listed Under Recognized Component Index, File Number E94661

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: 3.8 grams (approx)
- Mounting Position: Any
- Marking: Type Number



PBPC-8		
Dim	Min	Max
A	18.54	19.56
B	6.35	7.60
C	22.20	—
D	1.27 \varnothing Typical	
E	5.33	7.37
G	3.60 \varnothing	4.00 \varnothing
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 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°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 (JEDEC Method)	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							μ A mA
I ² t Rating for Fusing (t < 8.3ms) (Note 3)	I ² t	64							A ² s
Typical Junction Capacitance, per element (Note 4)	C _j	110							pF
Typical Thermal Resistance Junction to Case (per element)	R _{θJC}	7.5							K/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. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.



