

PBPC301 - PBPC307

3.0A BRIDGE RECTIFIER

Features

- High Current Capability
- Surge Overload Rating to 50A 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

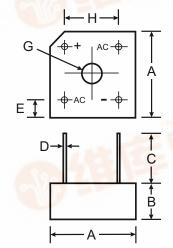
Polarity: Marked on Body

Mounting: Through Hole for #6 Screw

Mounting Torque: 5.0 Inch-pounds Maximum

Weight: 3.8 grams (approx)

Marking: Type Number



PBPC-3									
Dim	Min	Max							
Α	14.73	15.75							
В	5.84	6.86							
С	19.00	11 -							
D	0.76 ∅	Typical							
Ent	1.70	3.20							
G	Hole for	#6 screw							
	3.60	4.00							
Н	10.30	11.30							
All Dimensions in mm									

Maximum Ratings and Electrical Characteristics @ TA = 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 Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @ $T_C = 50^{\circ}$ C (Note 2) @ $T_C = 50^{\circ}$ C		3.0 2.0						А	
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)				-	50	33	DZSC	.001	А
Forward Voltage (per element) @ I _F = 1.5A	V _{FM}				1.2	Mari			V
Peak Reverse Current @ T _C = 25°C at Rated DC Blocking Voltage (per element)@ T _C = 100°C		10 1.0						μA mA	
I ² t Rating for Fusing (t<8.3ms) (Note 3)		10							A ² s
Typical Junction Capacitance (Note 4)		55							pF
Typical Thermal Resistance Junction to Case (per element)		25							°C/W
Operating and Storage Temperature Range		-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. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.



