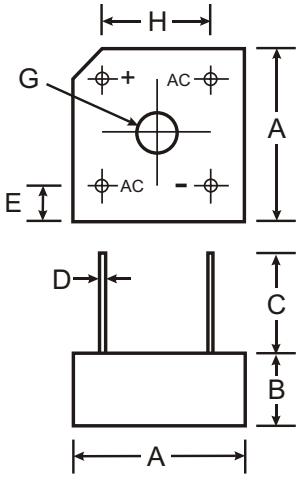
PBPC801 - PBPC807

8.0A BRIDGE RECTIFIER

Features

- Diffused Junction
- High Current Capability
- Surge Overload Rating to 125A 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



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		

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

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 801	PBPC 802	PBPC 803	PBPC 804	PBPC 805	PBPC 806	PBPC 807	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	8.0 6.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	125							A
Forward Voltage (per element) @ I_F = 4.0A	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^2t Rating for Fusing (t<8.3ms) (Note 3)	I^2t	64							A^2s
Typical Junction Capacitance (Note 4)	C_j	100							pF
Typical Thermal Resistance Junction to Case (per element)	$R_{\theta JC}$	9.4							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.

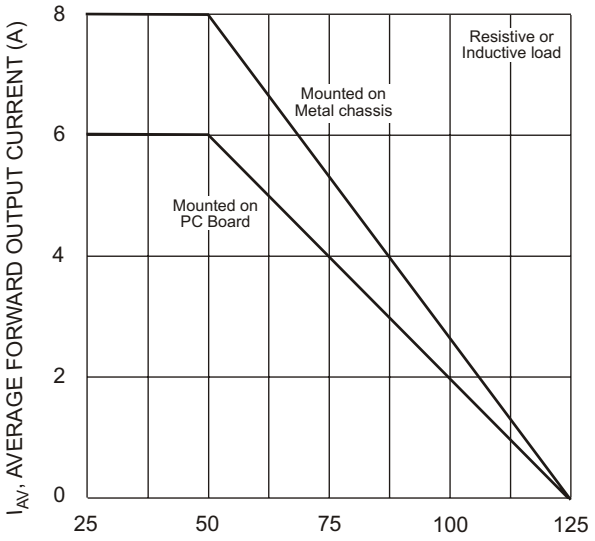


Fig. 1 Forward Current Derating Curve

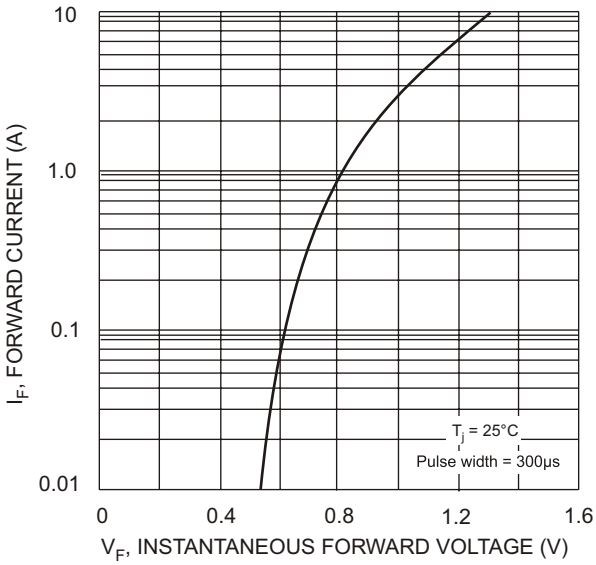


Fig. 2 Typical Forward Characteristics, per element

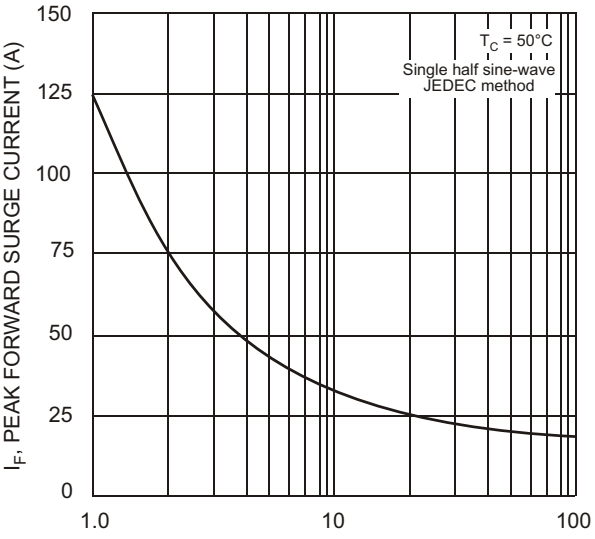


Fig. 3 Typical Reverse Characteristics

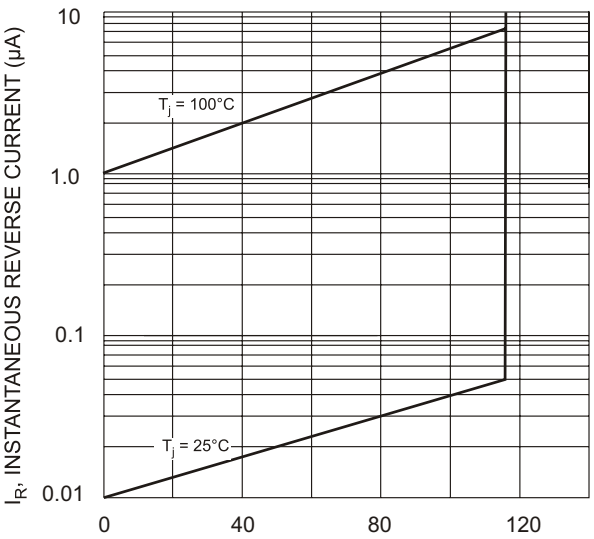


Fig. 4 Typical Reverse Characteristics, per element