

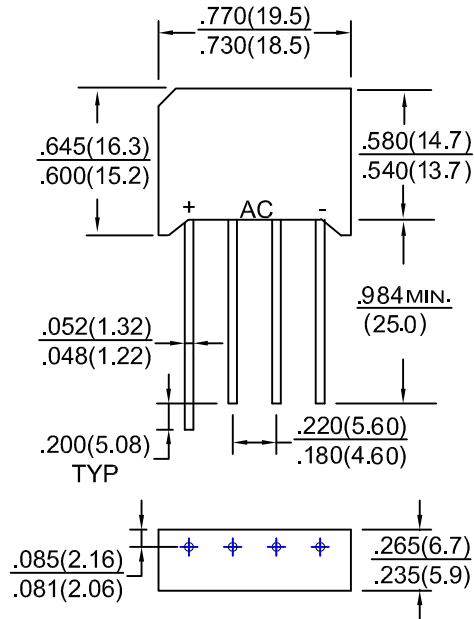
PBL601-1 THRU PBL610-1

SINGLE PHASE SILICON BRIDGE RECTIFIERS

PBL

FEATURES:

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case : Molded plastic

Terminals : Plated terminals, solderable per MIL-STD-202F, Method 208

Polarity : Polarity symbols marked on body

Mounting Position : Any

Handling Precaution : None

Weight : 5.00 grams or 0.167 ounce per piece

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	PBL 601-1	PBL 602-1	PBL 603-1	PBL 604-1	PBL 606-1	PBL 608-1	PBL 610-1	Units
	Marking	PBL 601	PBL 602	PBL 603	PBL 604	PBL 606	PBL 608	PBL 610	
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at $T_a=50^\circ\text{C}$	I_o	6.0							Amps
Peak forward surge current single half sine-wave on rated load	I_{FSM}	180							Amps
Maximum instantaneous forward voltage drop per leg at 6.0 A	V_F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage per leg $T_a=25^\circ\text{C}$ $T_a=100^\circ\text{C}$	I_R	5.0 100							μA
Operating junction and storage temperature range	T_j, T_{stg}	-55 to +150							$^\circ\text{C}$

