

SILICON BRIDGE RECTIFIERS

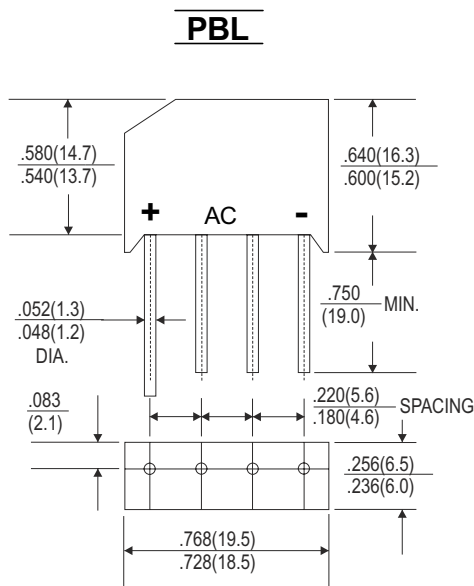
REVERSE VOLTAGE - 50 to 1000 Volts
FORWARD CURRENT - 4.0 Amperes

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- UL Recognition File # E228882

MECHANICAL DATA

- Polarity : As marked on Body
- Weight : 0.08 ounces, 2.3 grams
- Mounting position : Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	PBL 401	PBL 402	PBL 403	PBL 404	PBL 405	PBL 406	PBL 407	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _c =100°C (with heatsink Note 2) (without heatsink)	I _(AV)					4.0			A
						2.6			
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I _{FSM}					150			A
Maximum forward Voltage at 4.0A DC	V _F					1.1			V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T _J =25°C @T _J =100°C	I _R					5			uA
						500			
I ² t Rating for fusing (t < 8.3ms)	I ² t					93			A ² S
Typical Junction Capacitance per element (Note 1)	C _J					45			pF
Typical Thermal Resistance (Note 2)	R _{θJC}					2.2			°C/W
Operating Temperature Range	T _J					-55 to +150			°C
Storage Temperature Range	T _{STG}					-55 to +150			°C

NOTE : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2.Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES

