

# KBPC10005P Thru KBPC1010P



## 10 AMP SILICON BRIDGE RECTIFIER

### FEATURES

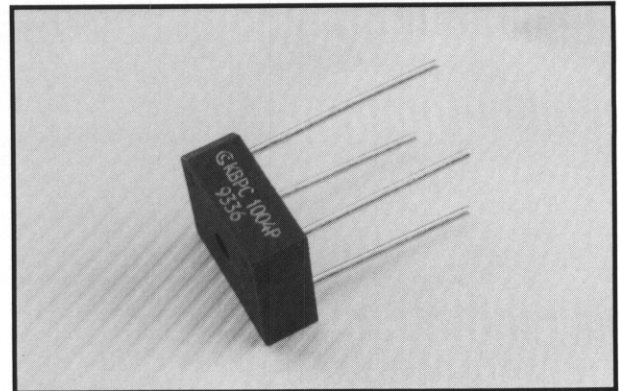
- Rating to 1000V PRV
- Ideal for printed circuit board
- Surge overload rating to 150 Amperes peak
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

### Mechanical Data

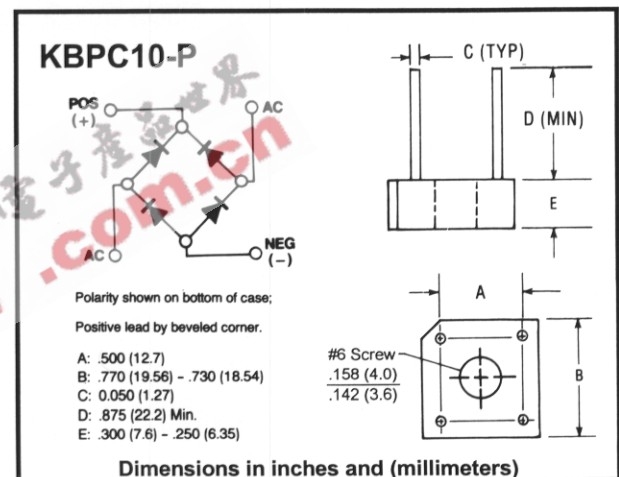
- Case: Molded Plastic
- Leads: Silver plated copper
- Leads solderable per MIL-STD-202, Method 208
- Mounting: Through hole for #6 screw
- Weight: 0.18 ounce, 5.4 grams

### Maximum Ratings & 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%



### Outline Drawing



		KBPC 10005P	KBPC 1001P	KBPC 1002P	KBPC 1004P	KBPC 1006P	KBPC 1008P	KBPC 1010P	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Current	I <sub>(AV)</sub>					10.0 8.0			A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I <sub>FSM</sub>					150			A
Maximum DC Forward Voltage Drop per Element At 5.0A DC	V <sub>F</sub>					1.1			V
Maximum Reverse Current At Rated DC Blocking Voltage per Element	I <sub>R</sub>					10 1			μA mA
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	I <sup>2</sup> t					64			A <sup>2</sup> S
Typical Thermal Resistance	R <sub>THJC</sub>					5			°C/W
Operating Temperature Range	T <sub>J</sub>					-55 to +125			°C
Storage Temperature Range	T <sub>STG</sub>					-55 to +150			°C

Note: \* Unit mounted on metal chassis.  
\*\* Unit mounted on P.C. board.