

KBPC10005P Thru KBPC1010P



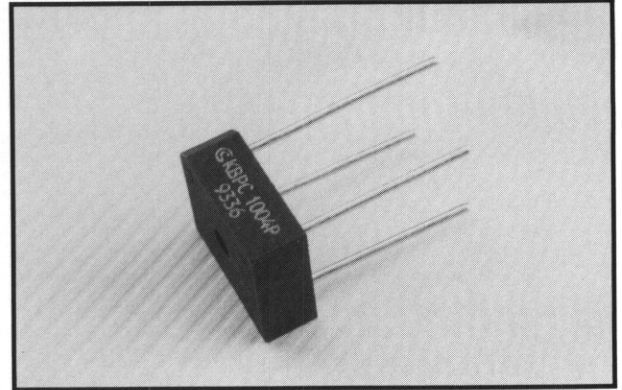
10 AMP SILICON BRIDGE RECTIFIER

FEATURES

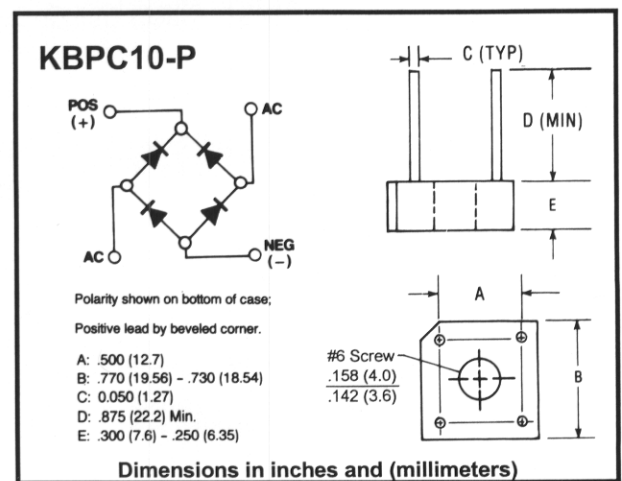
- Rating to 1000V PRV
- Ideal for printed circuit board
- Surge overload rating to 150 Amperes peak
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

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



Outline Drawing



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%

		KBPC 10005P	KBPC 1001P	KBPC 1002P	KBPC 1004P	KBPC 1006P	KBPC 1008P	KBPC 1010P	Units
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 Output Current @ $T_A = 50^\circ\text{C}^*$ @ $T_A = 50^\circ\text{C}^{**}$	$I_{(AV)}$	10.0 8.0							A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I_{FSM}	150							A
Maximum DC Forward Voltage Drop per Element At 5.0A DC	V_F	1.1							V
Maximum Reverse Current At Rated DC Blocking Voltage per Element @ $T_A = 25^\circ\text{C}$ @ $T_A = 100^\circ\text{C}$	I_R	10 1							μA mA
$I^2 t$ Rating for Fusing ($t < 8.3\text{ms}$)	$I^2 t$	64							A^2S
Typical Thermal Resistance	R_{THJC}	5							$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to +125							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

Note: * Unit mounted on metal chassis.

** Unit mounted on P.C. board.