

KBPC1005P Thru KBPC1010P



10 AMP SILICON BRIDGE RECTIFIER

FEATURES

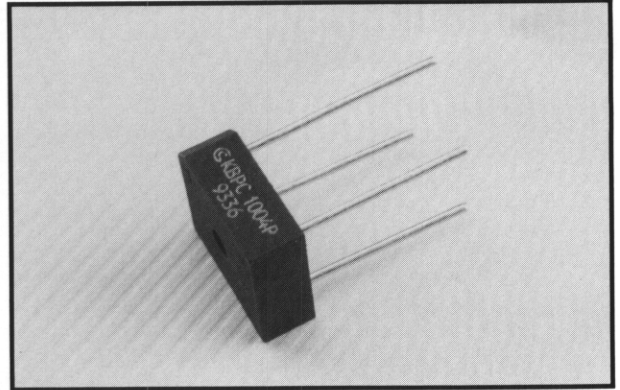
- Rating to 1000V PRV
- Ideal for printed circuit board
- Surge overload rating to 150 Amperes peak
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

Mechanical Data

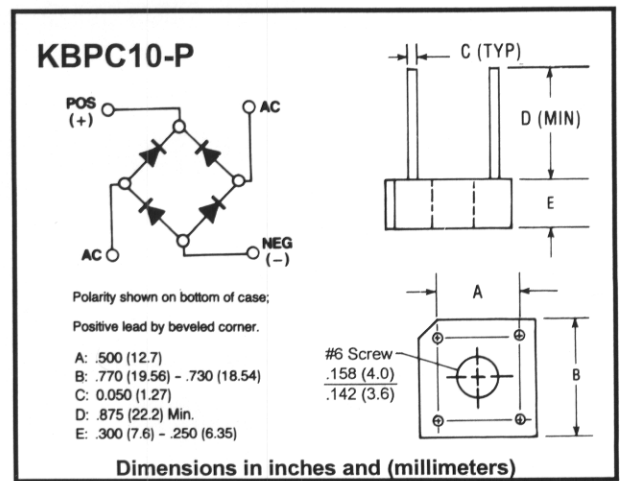
- Case: Molded Plastic
- Leads: Silver plated copper
- Leads solderable per MIL-STD-202, Method 208
- Mounting: Through hole for #6 screw
- Weight: 0.18 ounce, 5.4 grams

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_{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	$I_{(AV)}$					10.0			A
						8.0			
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	I_R					10			μA
						1			mA
$I^2 t$ Rating for Fusing ($t < 8.3ms$)	$I^2 t$					64			$A^2 S$
Typical Thermal Resistance	R_{THJC}					5			$^{\circ}C/W$
Operating Temperature Range	T_J					-55 to +125			$^{\circ}C$
Storage Temperature Range	T_{STG}					-55 to +150			$^{\circ}C$

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