

# KBPC8005 Thru KBPC810

## 8 AMP SILICON BRIDGE RECTIFIER

### FEATURES

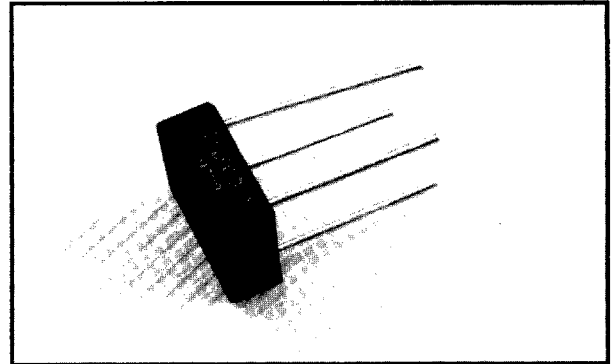
- Rating to 1000V PRV
- Ideal for printed circuit board
- Surge overload rating to 125 Amperes peak
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

### Mechanical Data

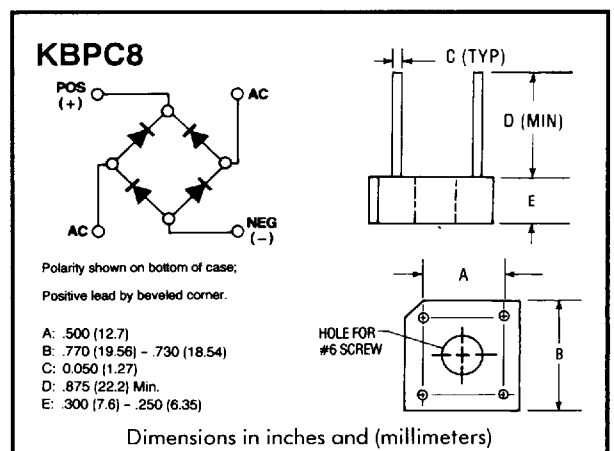
- Case: Molded Plastic
- Leads: Silver plated copper
- Lead solderable per MIL-STD-202, Method 208
- Mounting through hole for #6 screw mounting
- Weight: 0.18 ounce, 5.4 grams

### 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



		KBPC8005	KBPC801	KBPC802	KBPC804	KBPC806	KBPC808	KBPC810	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	$V_{DC}$	60	100	200	400	600	800	1000	V
Maximum Average Forward Output Current @ $T_C = 50^\circ C^*$ @ $T_A = 50^\circ C^{**}$	$I_{AV}$	8.0 6.0							A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	$I_{FSM}$	125							A
Maximum DC Forward Voltage Drop per Element At 4.0A DC	$V_F$	1.1							V
Maximum DC Reverse Current at rated DC Blocking Voltage per Element @ $T_A = 25^\circ C$ @ $T_A = 100^\circ C$	$I_R$	10 1							$\mu A$ mA
$I^2 t$ Rating for Fusing ( $t < 8.3ms$ )	$I^2 t$	64							A <sup>2</sup> S
Typical Thermal Resistance	$R_{THJC}$	6							$^\circ C/W$
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