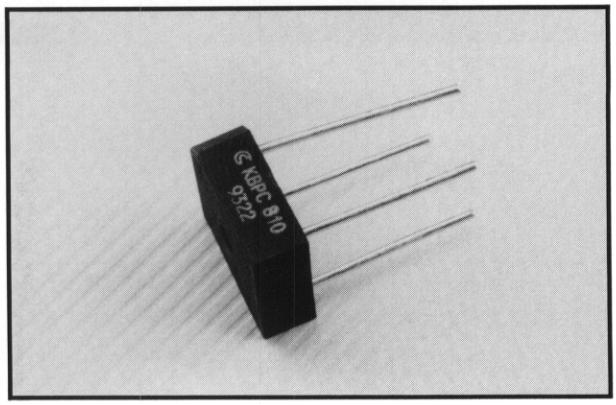
KBPC8005 Thru KBPC810

8 AMP SILICON BRIDGE RECTIFIER



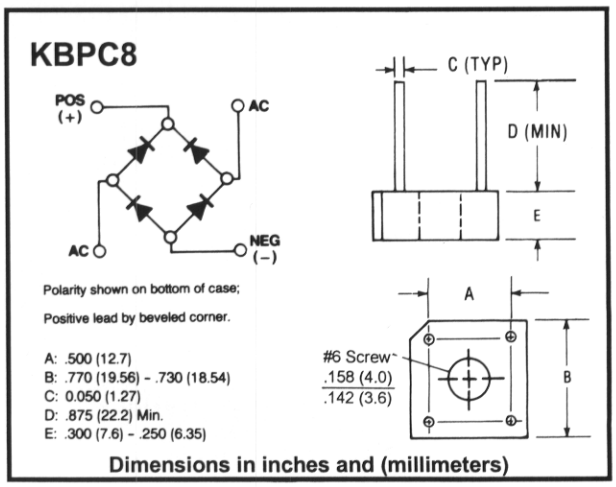
FEATURES

- 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

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 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	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 @ T_C = 50°C*	$I_{(AV)}$	8.0							A
Outtput Currnet @ T_A = 50°C**		6.0							
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 @ T_A = 25°C	I_R	10							μA
DC Blocking Voltage per Element @ T_A = 100°C		1							mA
I^2t Rating for Fusing (t < 8.3ms)	I^2t	64							A^2S
Typical Thermal Resistance	R_{THJC}	6							°C/W
Operating Temperature Range	T_J	-55 to +125							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

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