



# RKBPC8005 Thru RKBPC810

## 8 AMP FAST RECOVERY BRIDGE RECTIFIER

### FEATURES

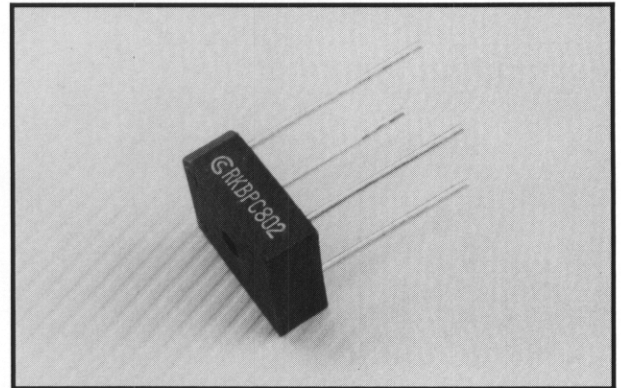
- Rating to 1000V PRV
- High efficiency
- Ideal for printed circuit board
- Surge overload rating to 125 Amperes peak
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

### Mechanical Data

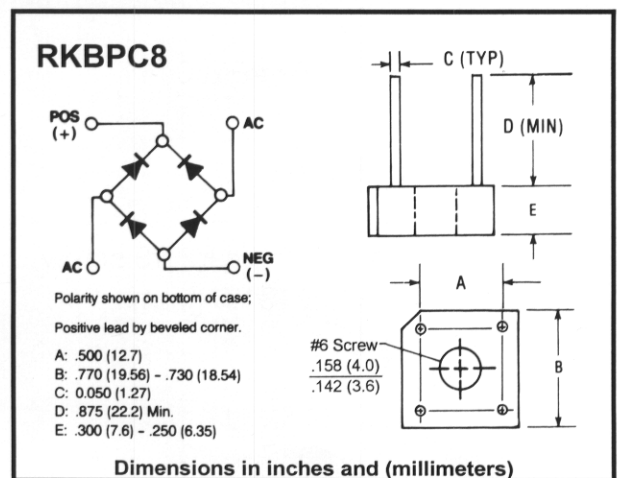
- Case: Molded Plastic
- Leads: Silver plated copper
- Leads solderable per MIL-STD-202, Method 208
- Weight: 0.18 ounce, 5.4 grams

### 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



		RKBPC 8005	RKBPC 801	RKBPC 802	RKBPC 804	RKBPC 806	RKBPC 808	RKBPC 810	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>	8.0 6.0							A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I <sub>FSM</sub>	125							A
Maximum DC Forward Voltage Drop per Element At 4.0A DC	V <sub>F</sub>	1.3							V
Maximum Reverse Current At Rated DC Blocking Voltage per Element	I <sub>R</sub>	10 1							μA mA
Maximum Recovery Time (Note 1)	t <sub>rr</sub>	200			300		500		nS
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	I <sup>2</sup> t	64							A <sup>2</sup> S
Operating Temperature Range	T <sub>J</sub>	-55 to +125							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

Note: 1. Reverse recovery test conditions: I<sub>F</sub> = 0.5A, I<sub>R</sub> = -1.0A, I<sub>RR</sub> = -0.25A

\* Unit mounted on metal chassis

\*\* Unit mounted on P.C. board