

RKBPC6005 Thru RKBPC610



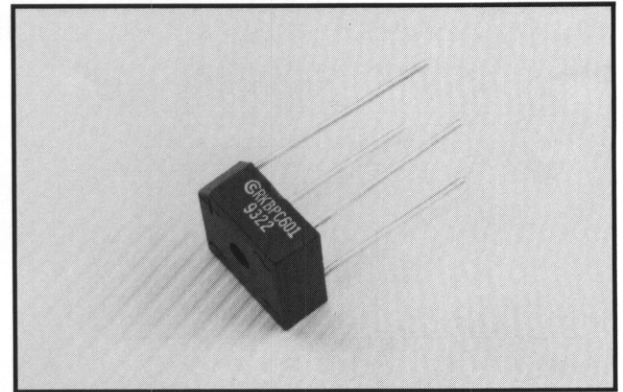
6 AMP FAST RECOVERY BRIDGE RECTIFIER

FEATURES

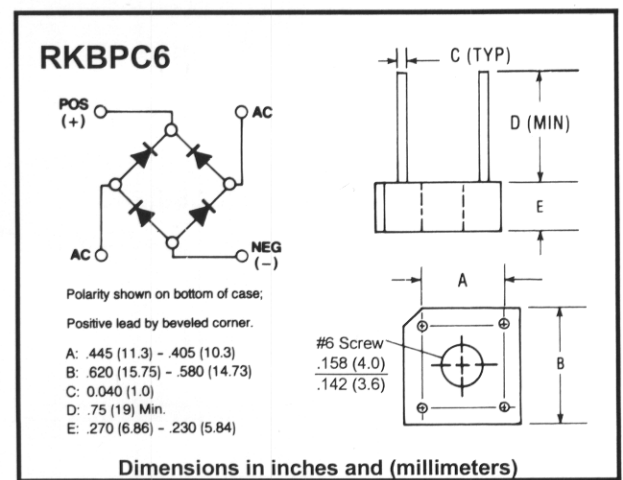
- Rating to 1000V PRV
- High efficiency
- Ideal for printed circuit board
- Surge overload rating to 125 Amperes peak
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

Mechanical Data

- Case: Molded Plastic
- Leads: Silver plated copper
- Leads solderable per MIL-STD-202, Method 208
- Weight: 0.13 ounce, 3.8 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%

		RKBPC 6005	RKBPC 601	RKBPC 602	RKBPC 604	RKBPC 606	RKBPC 608	RKBPC 610	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) @ T _C = 50°C * @ T _A = 50°C **	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 3.0A DC	V _F	1.3								V
Maximum Reverse Current At Rated DC Blocking Voltage per Element	I _R @ T _A = 25°C @ T _A = 100°C	10 1								μA mA
Maximum Recovery Time (Note 1)	t _{rr}	200			300		500		nS	
I ² t Rating for Fusing (t < 8.3ms)	I ² t	64								A ² S
Operating Temperature Range	T _J	-55 to +125								°C
Storage Temperature Range	T _{STG}	-55 to +150								°C

Note: 1. Reverse Recovery test conditions: I_F = 0.5A, I_R = -1.0A, I_{RR} = -0.25A

* Unit mounted on metal chassis

** Unit mounted on P.C. board