

KBPC6005 Thru KBPC610



6 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



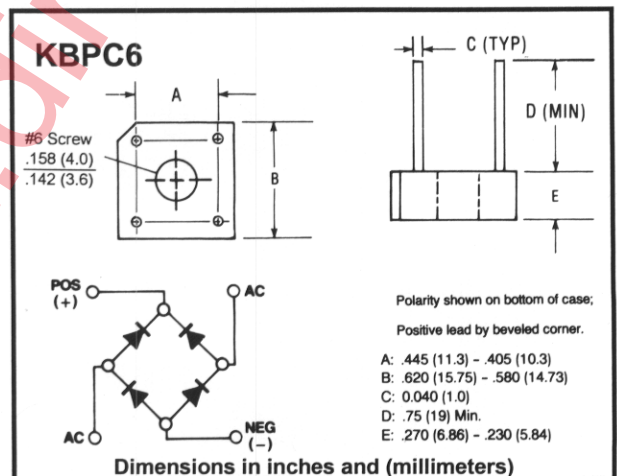
Mechanical Data

- Case: Molded Plastic
- Leads: Silver plated copper
- Leads solderable per MIL-STD-202, Method 208
- Mounting: Through hole for #6 screw
- Weight: 0.13 ounce, 3.8 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 6005	KBPC 601	KBPC 602	KBPC 604	KBPC 606	KBPC 608	KBPC 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}	60	100	200	400	600	800	1000	V
Maximum Average Forward Output Current @ $T_A = 50^\circ\text{C}^*$ @ $T_A = 50^\circ\text{C}^{**}$	$I_{(AV)}$					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 3.0A DC	V_F					1.1			V
Maximum DC Reverse Current At Rated DC Blocking Voltage per Element @ $T_A = 25^\circ\text{C}$ @ $T_A = 100^\circ\text{C}$	I_R					10 1			μA mA
$I^2 t$ Rating for Fusing ($t < 8.3\text{ms}$)	$I^2 t$					64			$\text{A}^2 \text{S}$
Typical Thermal Resistance	$R_{\theta JC}$					8			$^\circ\text{C/W}$
Operating Temperature Range	T_J					-55 to +125			$^\circ\text{C}$
Storage Temperature Range	T_{STG}					-55 to +150			$^\circ\text{C}$

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