

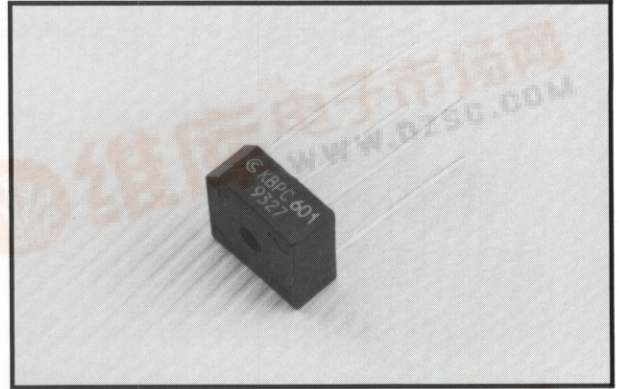
KBPC6005 Thru KBPC610



6 AMP SILICON BRIDGE RECTIFIER

FEATURES

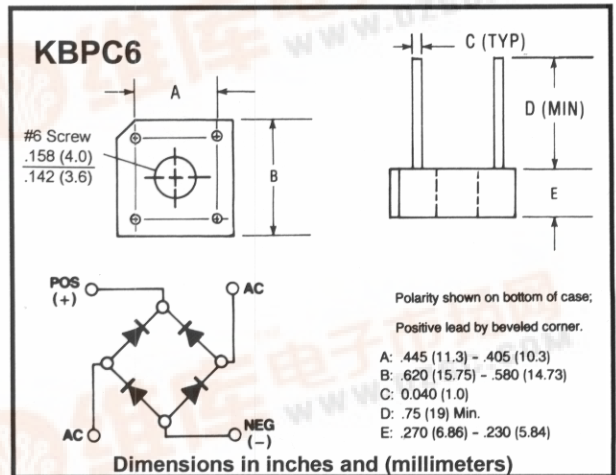
- Rating to 1000V PRV
- Ideal for printed circuit board
- Surge overload rating to 125 Amperes peak
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material



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

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 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 @ $T_A = 50^\circ C^*$ @ $T_A = 50^\circ C^{**}$	$I_{(AV)}$				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 3.0A 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				μA mA
$I^2 t$ Rating for Fusing ($t < 8.3ms$)	$I^2 t$				64				$A^2 S$
Typical Thermal Resistance	R_{THJC}				8				$^\circ C/W$
Operating Temperature Range	T_J				-55 to +125				$^\circ C$
Storage Temperature Range	T_{STG}				-55 to +150				$^\circ C$