

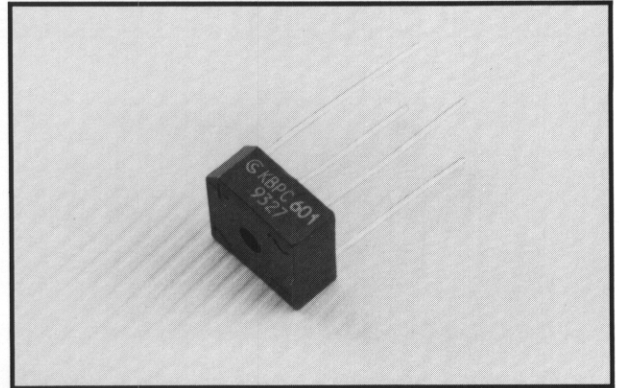
# KBPC6005 Thru KBPC610



## 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



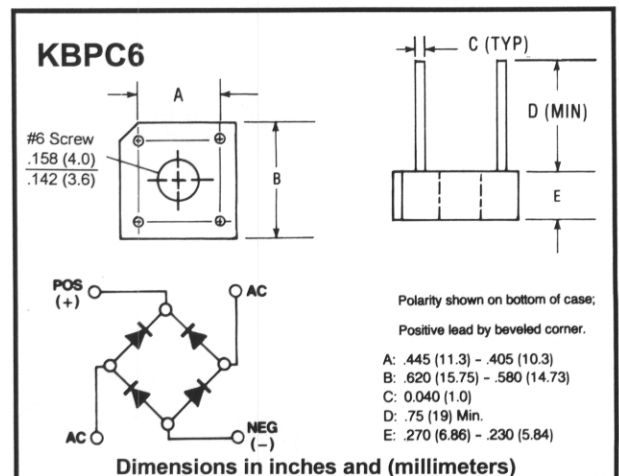
### Mechanical Data

- 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	$I_{(AV)}$				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	$I_R$				10 1				$\mu A$ 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				$^{\circ}C$

Note: \* Unit mounted on metal chassis

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