

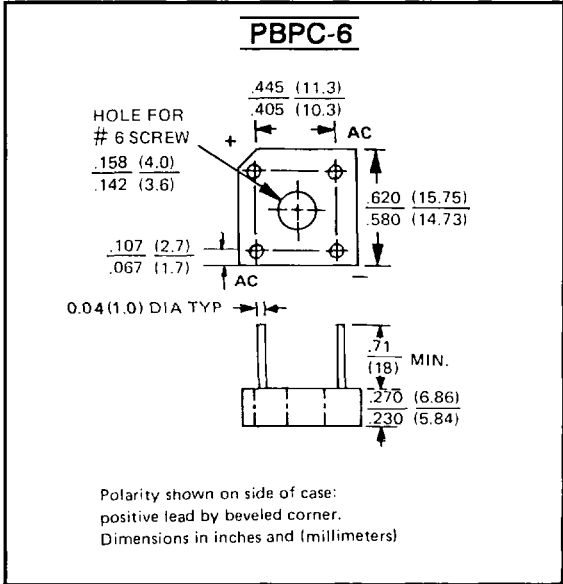
6 AMP. GLASS PASSIVATED SILICON BRIDGE RECTIFIERS



VOLTAGE RANGE
50 to 1000 Volts
CURRENT
6.0 Amperes

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 45 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 Method 208
- Leads: Tin plated copper
- Plastic material has U/L flammability classification 94V-0
- Polarity symbols molded on body
- Weight: 0.12 ounce 3.4 grams
- UL Recognized file # E95060



MAXIMUM RATINGS AND ELECTRICAL 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	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input 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 @ $T_C = 100^\circ C^*$ @ $T_A = 25^\circ C^{**}$	$I_{(AV)}$	6.0				3.0			A 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 A DC	V_F					1.2			V
Maximum DC Reverse Current at rated DC Blocking Voltage per element @ $T_A = 25^\circ C$ @ $T_A = 100^\circ C$	I_R					10 100			μA μA
Typical Junction Capacitance	C_J					30			pF
Typical Thermal Resistance	$R_{\theta JC}$					8			$^\circ C/W$
Operating Temperature Range	T_J					-55 to + 150			$^\circ C$
Storage Temperature Range	T_{STG}					-55 to + 150			$^\circ C$

NOTE: * Unit mounted on metal chassis.
 ** Unit mounted on P.C. board.
 Please specified if UL Recognition is necessary.

FIG. 1- PEAK FORWARD SURGE CURRENT

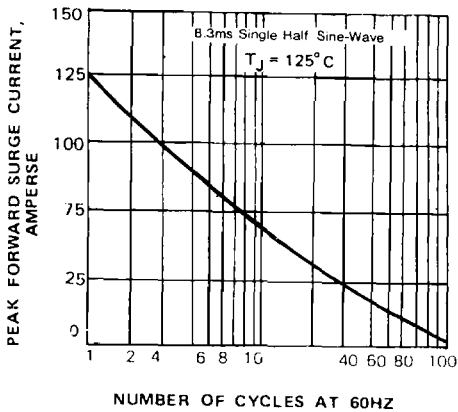


FIG. 2- FORWARD DERATING CURVE

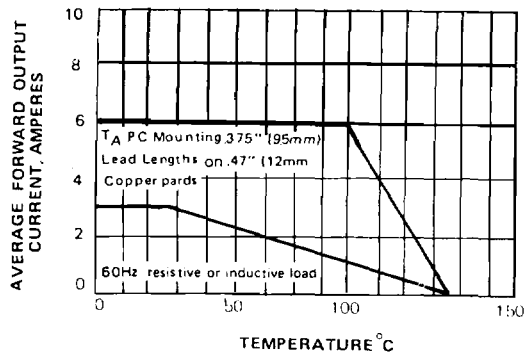


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

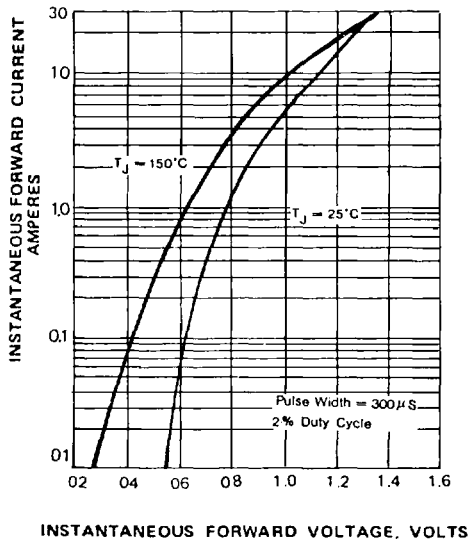


FIG. 4- TYPICAL JUNCTION CAPACITANCE PER ELEMENT

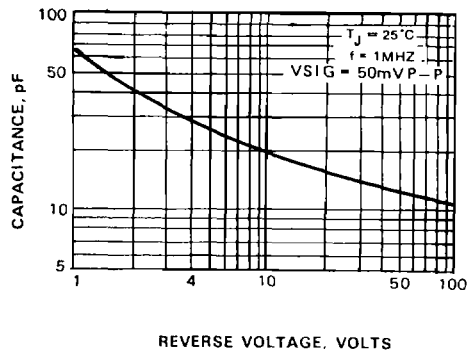


FIG. 5- TYPICAL REVERSE CHARACTERISTICS

