

UNO International Corp.

KBPC6005 THRU KBPC610
SINGLE PHASE SILICON
BRIDGE RECTIFIER

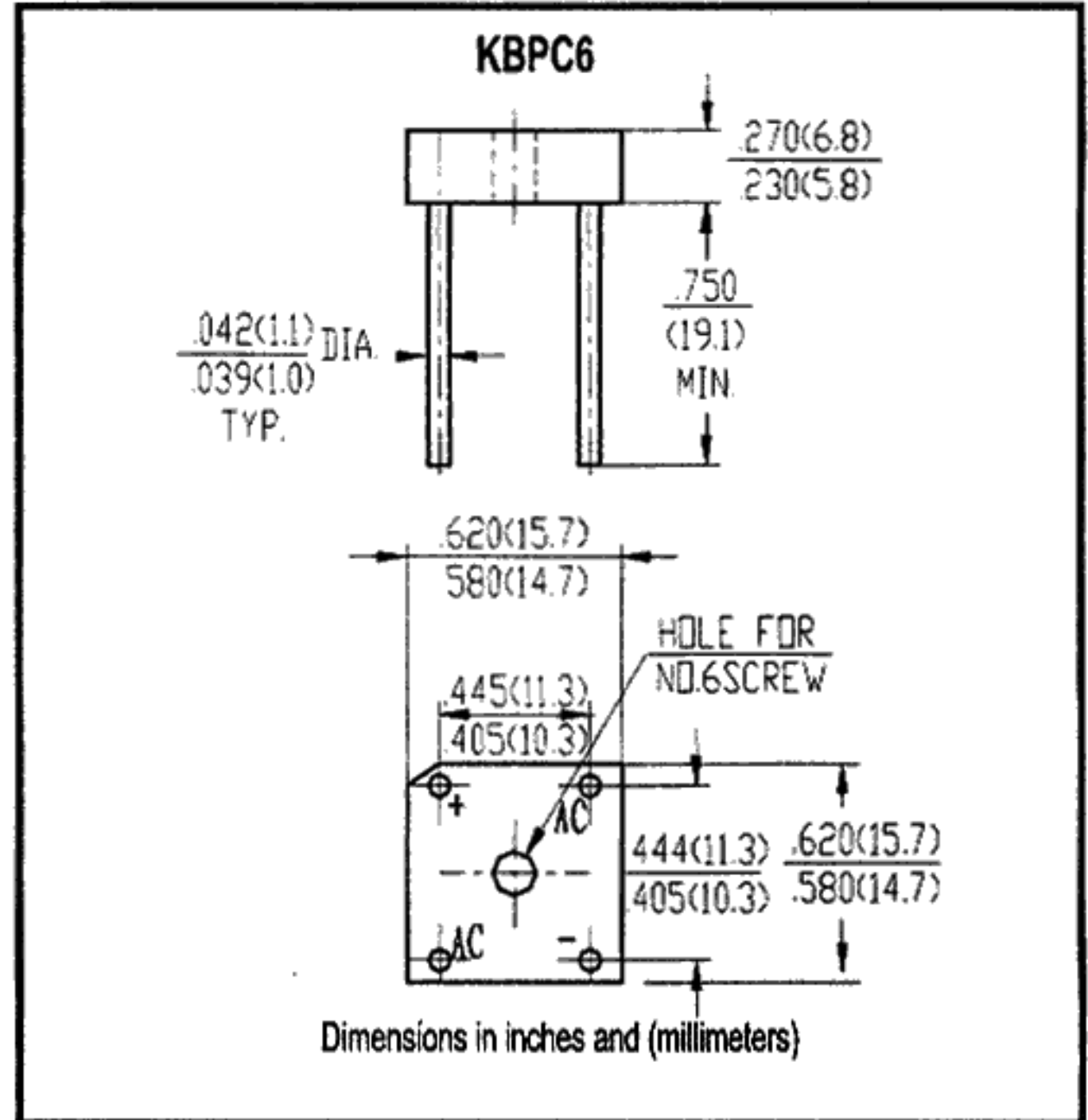
VOLTAGE: 50 TO 1000V CURRENT: 6.0A

FEATURE

- Surge overload rating: 125 A peak
- High case dielectric strength
- High temperature soldering guaranteed:
 250 °C/10sec/0.375" (9.5mm) lead length at 5 lbs tension

MECHANICAL DATA

Terminal: Plated leads solderable per
 MIL-STD 202E, method 208C
 Case: UL-94 Class V-0 recognized flame
 retardant epoxy
 Polarity: Polarity symbol marked on body
 Mounting position: Hole thru for #6 screw



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60HZ, resistive or inductive load rating at 25 °C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	KBPC6005	KBPC601	KBPC602	KBPC604	KBPC606	KBPC608	KBPC610	UNITS
Maximum Repetitive 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 Rectified Current ($T_c=75^\circ\text{C}$)	$I_{F(AV)}$	6.0							A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I_{FSM}	125							A
Maximum Instantaneous Forward Voltage (at forward current 3.0A DC)	V_F	1.0							V
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ (at rated DC blocking voltage) $T_a=100^\circ\text{C}$	I_R	10.0 500							μA μA
Operating Temperature Range	T_J	-55 to +125							$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 to +150							$^\circ\text{C}$