

# SHANGHAI SUNRISE ELECTRONICS CO., LTD.

## KBP005 THRU KBP10

SINGLE PHASE SILICON BRIDGE RECTIFIER

TECHNICAL SPECIFICATION

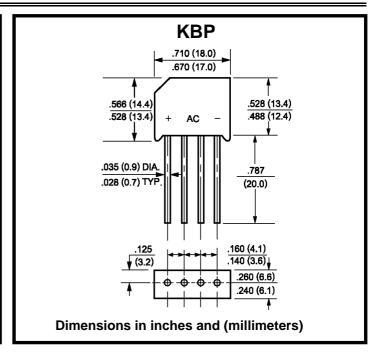
VOLTAGE: 50 TO 1000V CURRENT: 2.0A

#### **FEATURES**

- Ideal for printed circuit board
- Surge overload rating: 60 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-O recognized flame retardant epoxy
- Polarity: Polarity symbol marked on body
- Mounting position: Any



### 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	KBP 005	KBP 01	KBP 02	KBP 04	KBP 06	KBP 08	KBP 10	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 $(T_a=50^{\circ}C)$	I <sub>F(AV)</sub>	2.0							А
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I <sub>FSM</sub>	60						Α	
Maximum Instantaneous Forward Voltage (at forward current 2.0A DC)	V <sub>F</sub>	1.1						V	
Maximum DC Reverse Current $T_a=25^{\circ}$ C (at rated DC blocking voltage) $T_a=100^{\circ}$ C		10.0 500							μA μA
Operating Temperature Range	$T_J$	-55 to +125							°C
Storage Temperature	$T_{STG}$	-55 to +150						°C	