

# SHANGHAI SUNRISE ELECTRONICS CO., LTD.

# KBPC15005 THRU KBPC1510

SINGLE PHASE SILICON BRIDGE RECTIFIER

TECHNICAL SPECIFICATION

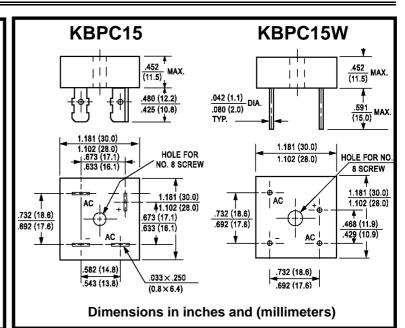
VOLTAGE: 50 TO 1000V CURRENT: 15A

## **FEATURES**

- Surge overload rating: 300A peak
- High case dielectric strength
- 1/4" universal fasten terminal
- and  $\phi.04$ " lead wire available
- High temperature soldering guaranteed: 250°C/10sec/0.375"(9.5mm) lead length at 5 lbs tension

#### **MECHANICAL DATA**

- Polarity: Polarity symbol marked on body
- Mounting position: Hole thru for #8 screw
- Case: metal or plastic



### 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%)

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RATINGS	SYMBOL	KBPC 15005	KBPC 1501	KBPC 1502	KBPC 1504	KBPC 1506	KBPC 1508	KBPC 1510	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 $(T_c=55^{\circ}C)$	I <sub>F(AV)</sub>	15							Α
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I <sub>FSM</sub>	300							Α
Maximum Instantaneous Forward Voltage (at forward current 7.5A 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							μΑ μΑ
Storage and Operating Junction Temperature	$T_{STG}, T_{J}$	-55 to +150							°C
Note:									

Note:

Suffix "W" for wire type