



KBPC25005 THRU KBPC2510

**SINGLE PHASE SILICON
BRIDGE RECTIFIER**

**TECHNICAL
SPECIFICATION**

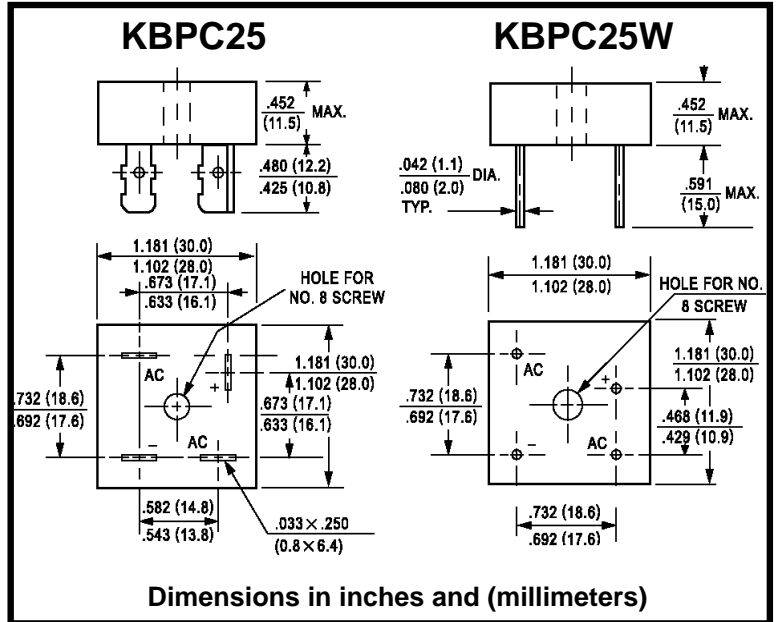
VOLTAGE: 50 TO 1000V CURRENT: 25A

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%)

RATINGS	SYMBOL	KBPC 25005	KBPC 2501	KBPC 2502	KBPC 2504	KBPC 2506	KBPC 2508	KBPC 2510	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 ($T_c=55^\circ\text{C}$)	$I_{F(AV)}$	25							A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I_{FSM}	300							A
Maximum Instantaneous Forward Voltage (at forward current 12.5A DC)	V_F	1.1							V
Maximum DC Reverse Current ($T_a=25^\circ\text{C}$)	I_R	10.0							μA
(at rated DC blocking voltage) ($T_a=100^\circ\text{C}$)		500							μA
Storage and Operating Junction Temperature	T_{STG, T_J}	-55 to +150							$^\circ\text{C}$

Note:
Suffix "W" for wire type