



KBPC1005 THRU KBPC1010

**SINGLE PHASE SILICON
BRIDGE RECTIFIER**

**TECHNICAL
SPECIFICATION**

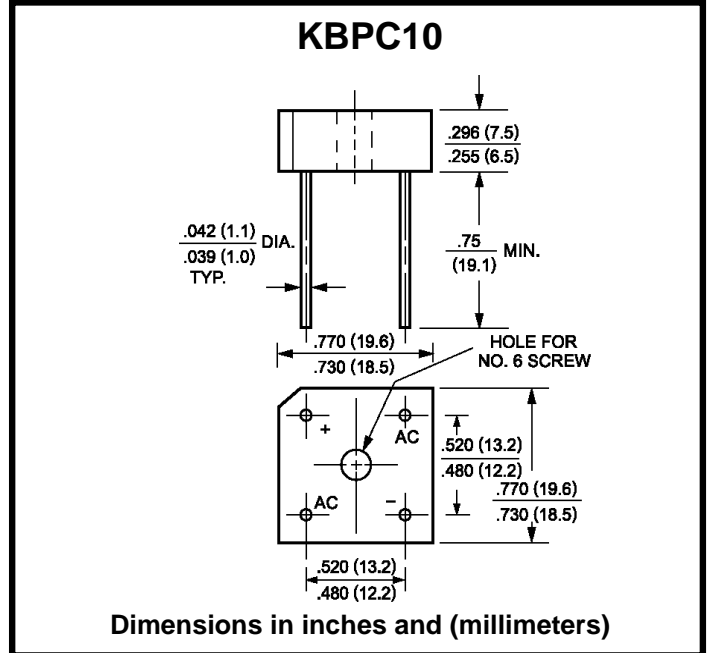
VOLTAGE: 50 TO 1000V CURRENT: 10A

FEATURES

- Surge overload rating: 200A 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: 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 | KBPC 10005 | KBPC 1001 | KBPC 1002 | KBPC 1004 | KBPC 1006 | KBPC 1008 | KBPC 1010 | 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 ($T_c=50^\circ\text{C}$) | $I_{F(AV)}$ | 10.0 | | | | | | | A |
| Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load) | I_{FSM} | 200 | | | | | | | A |
| Maximum Instantaneous Forward Voltage (at forward current 5.0A DC) | V_F | 1.1 | | | | | | | 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 | | | | | | | $^\circ\text{C}$ |