



CHENYI ELECTRONICS

# KBPC10005 THRU KBPC1010

## SINGLE PHASE SILICON BRIDGE RECTIFIER

Voltage: 50 TO 1000V CURRENT:10A

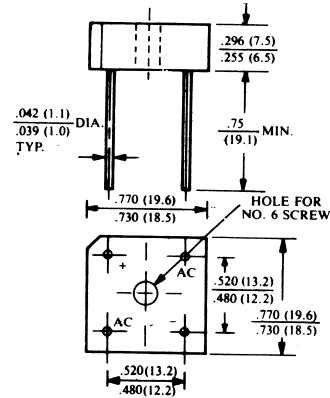
### FEATURES

- Surge overload rating: 200A peak
- High case dielectric strength

### 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 :** Hole thru for #6 screw

### KBPC10



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

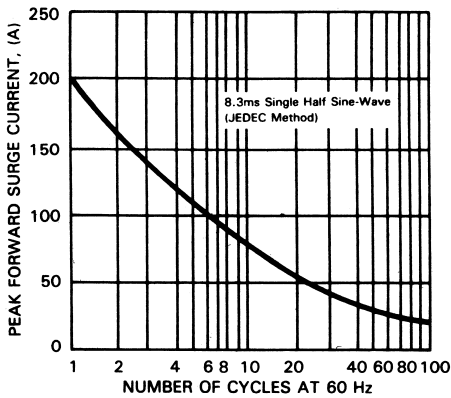
(Single-phase, half-wave, 60HZ, resistive or inductive load rating at 25 °C , unless otherwise stated,  
for capacitive load, derate current by 20%)

	SYMBOL	KBPC 10005	KBPC 1001	KBPC 1002	KBPC 1004	KBPC 1006	KBPC 1008	KBPC 1010	units	
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	280	420	560	700	V	
Maximum DC blocking Voltage	V <sub>dc</sub>	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified current at T <sub>a</sub> =25 °C	I <sub>f(av)</sub>	10.0								A
T <sub>a</sub> =50 °C		6.0								A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	200								A
Maximum Instantaneous Forward Voltage at forward current 5.0A DC	V <sub>f</sub>	1.1								V
Maximum DC Reverse Voltage T <sub>a</sub> =25 °C	I <sub>r</sub>	10.0								μ A
at rated DC blocking voltage T <sub>a</sub> =100 °C		200								μ A
Operating Temperature Range	T <sub>j</sub>	-55 to +125								°C
Storage and operation Junction Temperature	T <sub>stg</sub>	-55 to +150								°C

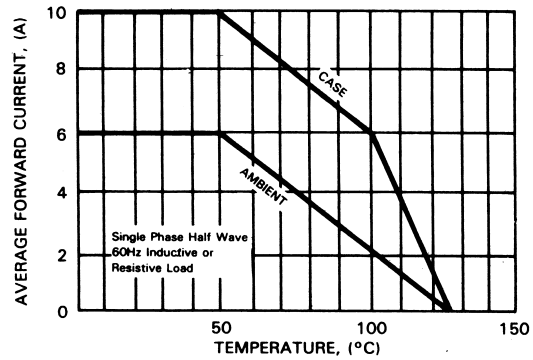


**RATINGS AND CHARACTERISTIC CURVES KBPC10005 THRU KBPC1010**

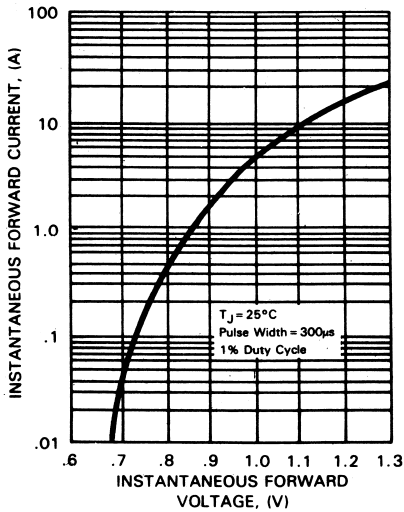
**FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE**



**FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG.4-TYPICAL REVERSE CHARACTERISTICS**

