



CHENYI ELECTRONICS

KBPC15005 THRU KBPC1510

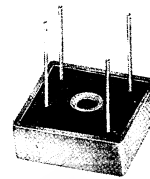
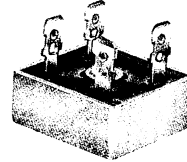
SINGLE PHASE SILICON
BRIDGE RECTIFIER

Voltage: 50 TO 1000V CURRENT:15A

FEATURES

- Surge overload rating: 300A peak
- High case dielectric strength
- 1/4" Universal faston terminal and \varnothing 40ml lead--wire available

KBPC



MECHANICAL DATA

- Polarity:** Polarity symbol marked on body
- Mounting :** 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%)

	SYMBOL	KBPC 15005	KBPC 1501	KBPC 1502	KBPC 1504	KBPC 1506	KBPC 1508	KBPC 1510	units
Maximum Recurrent 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 3/8" lead length at Ta=25 °C	I _{f(av)}	15							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 7.5A DC	V _f	1.1							V
Maximum DC Reverse Voltage Ta=25 °C	I _r	10.0							μ A
at rated DC blocking voltage Ta=100 °C		500							μ A
Operating Temperature Range	T _j	-55 to +150							°C
Storage and operation Junction Temperature	T _{stg}	-55 to +150							°C

Note: Suffix "W" for wire type

RATINGS AND CHARACTERISTIC CURVES KBPC15005 THRU KBPC1510

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

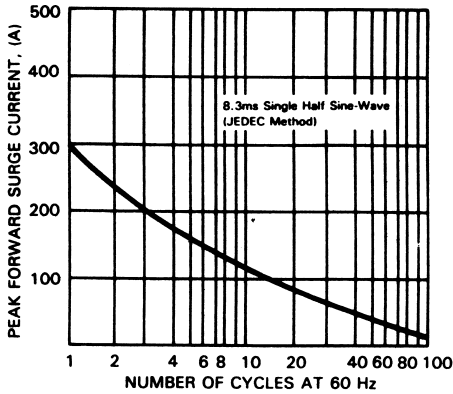


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

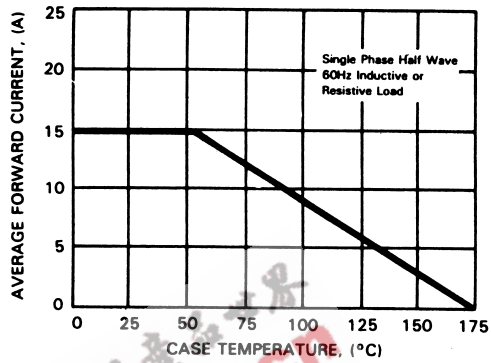


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

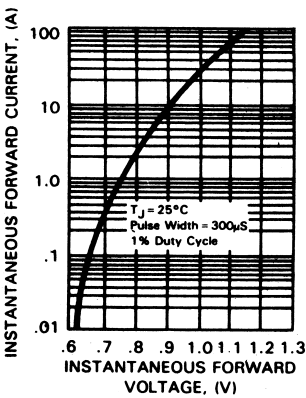


FIG.4-TYPICAL REVERSE CHARACTERISTICS

