



CHENYI ELECTRONICS

KBPC15005 THRU KBPC1510

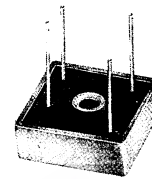
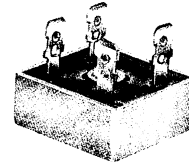
SINGLE PHASE SILICON
BRIDGE RECTIFIER

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

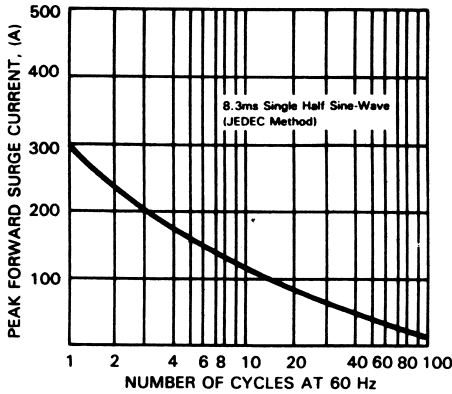


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

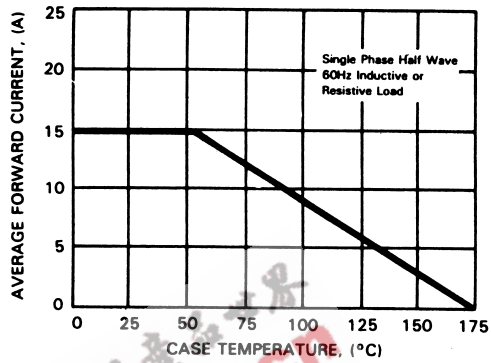


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

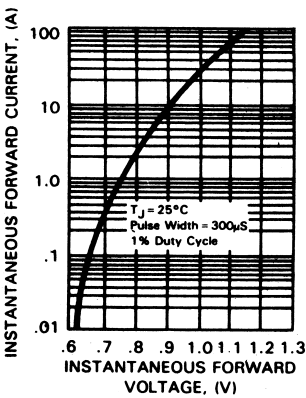


FIG.4-TYPICAL REVERSE CHARACTERISTICS

