

**CE**

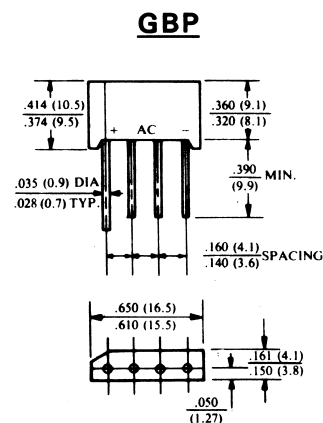
CHENYI ELECTRONICS

**GBP005 THRU GBP10****SINGLE PHASE GLASS  
PASSIVATED BRIDGE RECTIFIER****Voltage: 50 TO 1000V CURRENT:2.0A****FEATURES**

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Surge overload rating: 50A peak

**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 position:** any



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 | KBP005      | KBP01 | KBP02 | KBP04 | KBP06 | KBP08 | KBP10 | units |
|-----------------------------------------------------------------------------------|--------|-------------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Recurrent Peak Reverse Voltage                                            | Vrrm   | 50          | 100   | 200   | 400   | 600   | 800   | 1000  | V     |
| Maximum RMS Voltage                                                               | Vrms   | 35          | 70    | 140   | 280   | 420   | 560   | 700   | V     |
| Maximum DC blocking Voltage                                                       | Vdc    | 50          | 100   | 200   | 400   | 600   | 800   | 1000  | V     |
| Maximum Average Forward Rectified current at Ta=50 °C                             | If(av) | 2.0         |       |       |       |       |       |       | A     |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | Ifsm   | 60          |       |       |       |       |       |       | A     |
| Maximum Instantaneous Forward Voltage at forward current 2.0A DC                  | Vf     | 1.1         |       |       |       |       |       |       | V     |
| Maximum DC Reverse Voltage Ta=25 °C<br>at rated DC blocking voltage Ta=100 °C     | Ir     | 10.0        |       |       |       |       |       |       | μ A   |
|                                                                                   |        | 1.0         |       |       |       |       |       |       | m A   |
| Operating Temperature Range                                                       | Tj     | -55 to +150 |       |       |       |       |       |       | °C    |
| Storage and operation Junction Temperature                                        | Tstg   | -55 to +150 |       |       |       |       |       |       | °C    |

Note:

1.Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

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### RATINGS AND CHARACTERISTIC CURVES GBP005 THRU GBP10

FIG.1-MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT

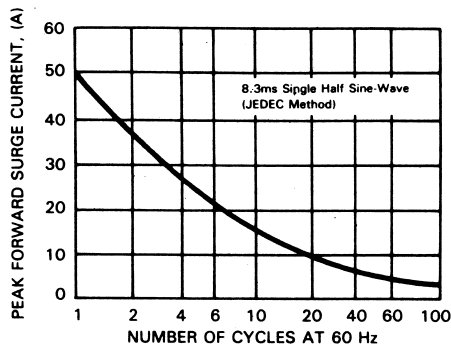


FIG.2-TYPICAL FORWARD CURRENT  
DERATING CURVE

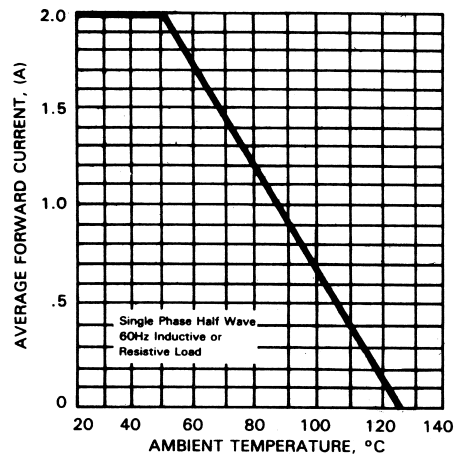


FIG.3-TYPICAL INSTANTANEOUS  
FORWARD CHARACTERISTICS

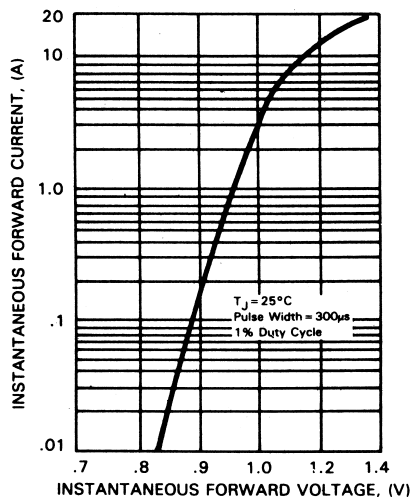


FIG.4-TYPICAL REVERSE CHARACTERISTICS

