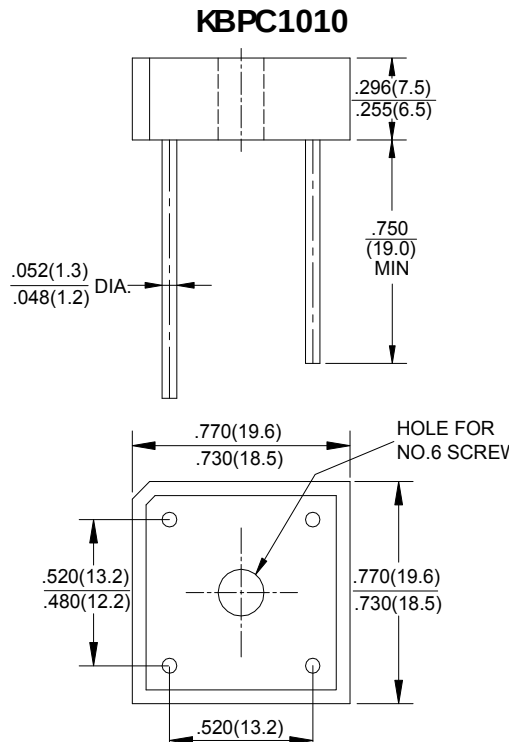


|                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SILICON BRIDGE RECTIFIERS</b>                                                                                                                                                                                                                                   | <b>REVERSE VOLTAGE</b> - <b>50 to 1000Volts</b><br><b>FORWARD CURRENT</b> - <b>10.0 Amperes</b>                                                                                                                                  |
| <b>FEATURES</b> <ul style="list-style-type: none"> <li>● Surge overload rating -240 amperes peak</li> <li>● Low forward voltage drop</li> <li>● Small size; simple installation</li> <li>● Silver plated copper leads</li> <li>● Mounting position: Any</li> </ul> | <p><b>KBPC1010</b></p>  <p>Dimensions in inches and (millimeters)</p> <p>Polarity shown on side of case, Positive lead by beveled corner.</p> |

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

| CHARACTERISTICS                                                                          | SYMBOL            | KBPC<br>10005 | KBPC<br>1001 | KBPC<br>1002 | KBPC<br>1004 | KBPC<br>1006 | KBPC<br>1008 | KBPC<br>1010 | UNIT |
|------------------------------------------------------------------------------------------|-------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|------|
| Maximum Recurrent Peak Reverse Voltage                                                   | V <sub>RRM</sub>  | 50            | 100          | 200          | 400          | 600          | 800          | 1000         | V    |
| Maximum RMS Bridge Input Voltage                                                         | V <sub>RMS</sub>  | 35            | 70           | 140          | 280          | 420          | 560          | 700          | V    |
| Maximum Average Forward Rectified Output Current at T <sub>A</sub> =50°C                 | I <sub>(AV)</sub> | 10.0          |              |              |              |              |              |              | A    |
| Peak Forward Surge Current<br>8.3ms Single Half Sine-Wave<br>Super Imposed on Rated Load | I <sub>FSM</sub>  | 240           |              |              |              |              |              |              | A    |
| Maximum Forward Voltage Drop<br>Per Bridge Element at 5.0A Peak                          | V <sub>F</sub>    | 1.0           |              |              |              |              |              |              | V    |
| Maximum Reverse Current at Rated T <sub>J</sub> =25°C                                    | I <sub>R</sub>    | 10.0          |              |              |              |              |              |              | μA   |
| DC Blocking Voltage Per Element T <sub>J</sub> =100°C                                    |                   | 1.0           |              |              |              |              |              |              | mA   |
| Operating Temperature Range                                                              | T <sub>J</sub>    | -55 to +150   |              |              |              |              |              |              | °C   |
| Storage Temperature Range                                                                | T <sub>STG</sub>  | -55 to +150   |              |              |              |              |              |              | °C   |



FIG.1-DERATING CURVE  
OUTPUT RECTIFIED CURRENT

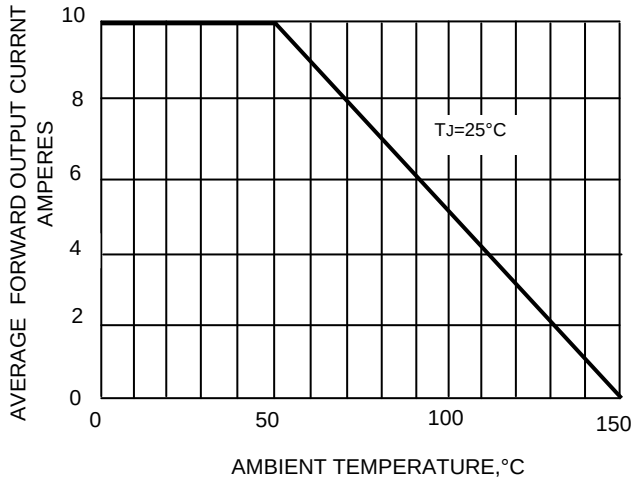


FIG.2-MAXIMUM FORWARD SURGE CURRENT

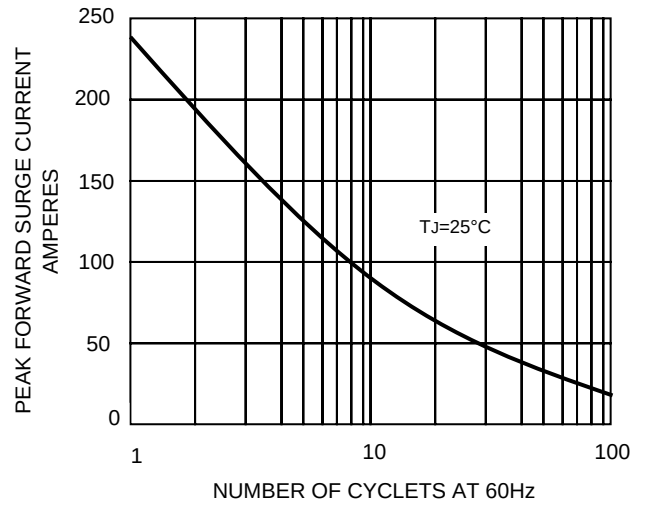


FIG.3-TYPICAL FORWARD  
CHARACTERISTICS

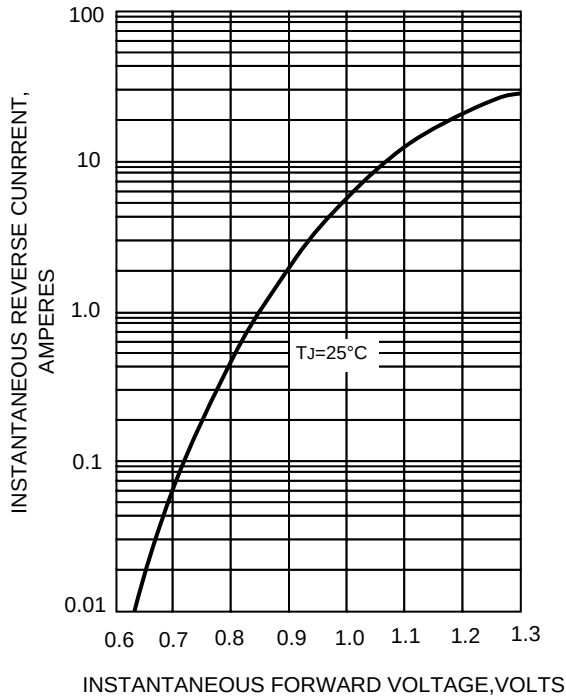
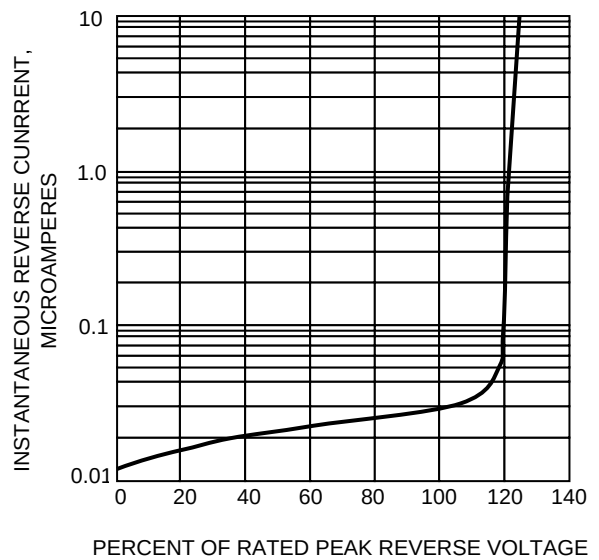


FIG.4-TYPICAL REVERSE  
CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!