



KBPC10/15/25/35/50A SERIES

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|--|---|
| SILICON BRIDGE RECTIFIERS | <p>REVERSE VOLTAGE - 50 to 1000Volts</p> <p>FORWARD CURRENT - 10/15/25/35/50 Amperes</p> |
| <p>FEATURES</p> <ul style="list-style-type: none"> ● Surge overload -240~500 Amperes peak ● Low forward voltage drop ● Mounting Position : Any ● Electrically isolated base -2000 Volts ● Solderable 0.25" FAST ON terminals ● Materials used carries U/L recognition | <p>KBPC</p> <p style="text-align: center;">Dimensions in inches and (milimeters)</p> |

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
 Resistive or inductive load 60Hz.
 For capacitive load current by 20%

| CHARACTERISTICS | SYMBOL | KBPC | | | | | | | | UNIT |
|---|-------------------|-------------|------|------|------|------|------|------|---|------|
| | | 10005 | 1001 | 1002 | 1004 | 1006 | 1008 | 1010 | | |
| | | 15005 | 1501 | 1502 | 1504 | 1506 | 1508 | 1510 | | |
| | | 25005 | 2501 | 2502 | 2504 | 2506 | 2508 | 2510 | | |
| | | 35005 | 3501 | 3502 | 3504 | 3506 | 3508 | 3510 | | |
| | | 50005 | 5001 | 5002 | 5004 | 5006 | 5008 | 5010 | | |
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V | |
| Maximum RMS Bridge Input Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V | |
| Maximum Average Forward Rectified Output Current @T _c =55°C | I _(AV) | 10 | 15 | 25 | 35 | 50 | | | A | |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load | I _{FSM} | 240 | 300 | 400 | 400 | 500 | | | A | |
| Maximum Forward Voltage Drop Per Element at 5.0/7.5/12.5/17.5/25.0A Peak | V _F | 1.1 | | | | | | | | V |
| Maximum Reverse Current at Rate DC Blocking Voltage Per Element @T _J =25°C | I _R | 10 | | | | | | | | μA |
| Operating Temperature Range | T _J | -55 to +150 | | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | | | | | | | | °C |

RATING AND CHARACTERISTIC CURVES
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FIG.1-MAXIMUM FORWARD SURGE CURRENT

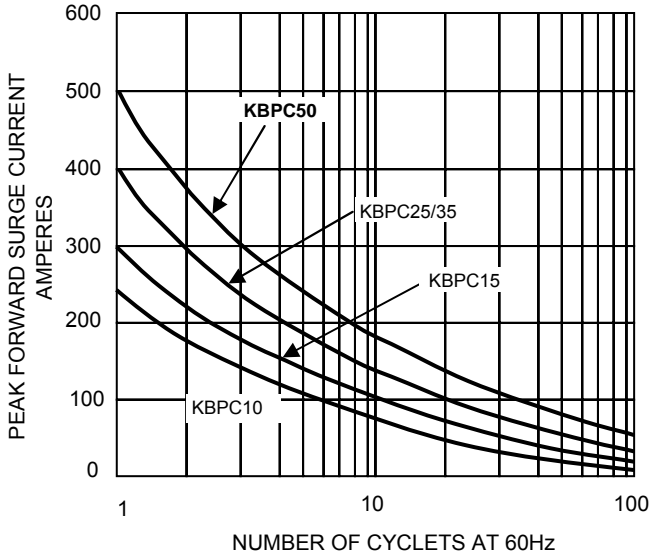


FIG.2- DERATING CURVE
 OUTPUT RECTIFIED CURRENT

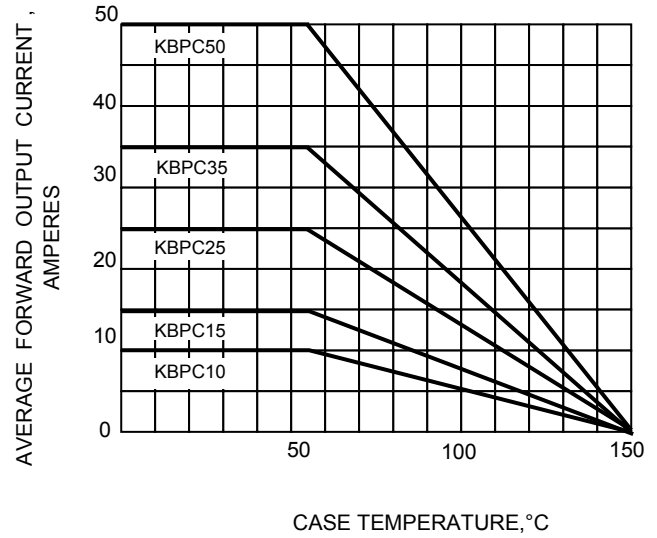


FIG.3-TYPICAL FORWARD CHARACTERISTICS

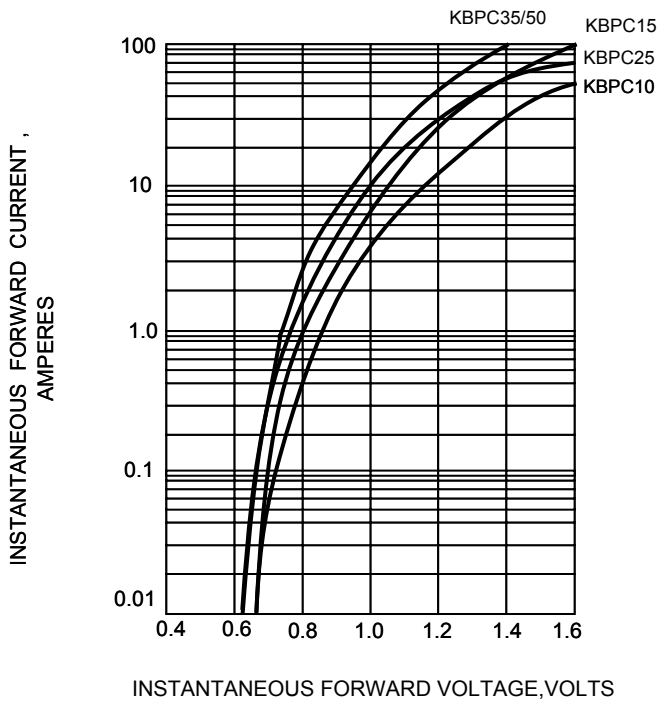
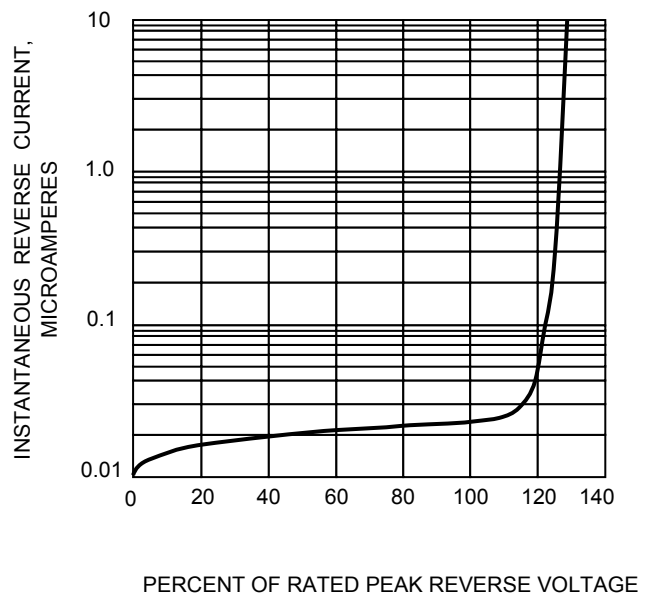


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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