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| SILICON BRIDGE RECTIFIERS | REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 10/15/25/35/50 Amperes |
| FEATURES <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" FASTON terminals ● Materials used carries U/L recognition | <p style="text-align: center;">Dimensions in inches and (millimeters)</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-W | | | | | | | | | | 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 | | | | | | | | |
| | | | | 10 | 15 | 25 | 35 | 50 | | | | | | | | |
| | | | | 10W | 15W | 25W | 35W | 50W | | | | | | | | |
| 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 _A =25°C | I _R | 10 | | | | | | | | | | uA | | | | |
| Operating Temperature Range | T _J | -55 to +125 | | | | | | | | | | °C | | | | |
| Storage Temperature Range | T _{STG} | -55 to +125 | | | | | | | | | | °C | | | | |

NOTES: Also available on KBPC 10W/15W/25W/35W/50W series.

FIG.1-MAXIMUM FORWARD SURGE CURRENT

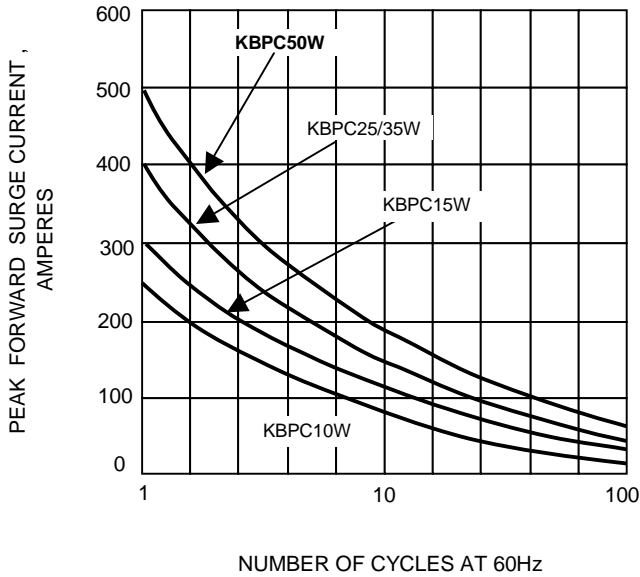


FIG.2- DERATING CURVE
 OUTPUT RECTIFIED CURRENT

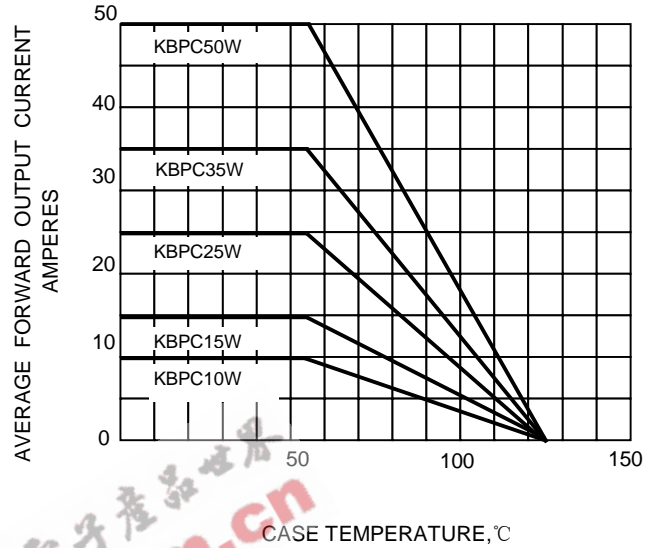


FIG.3-TYPICAL FORWARD CHARACTERISTICS

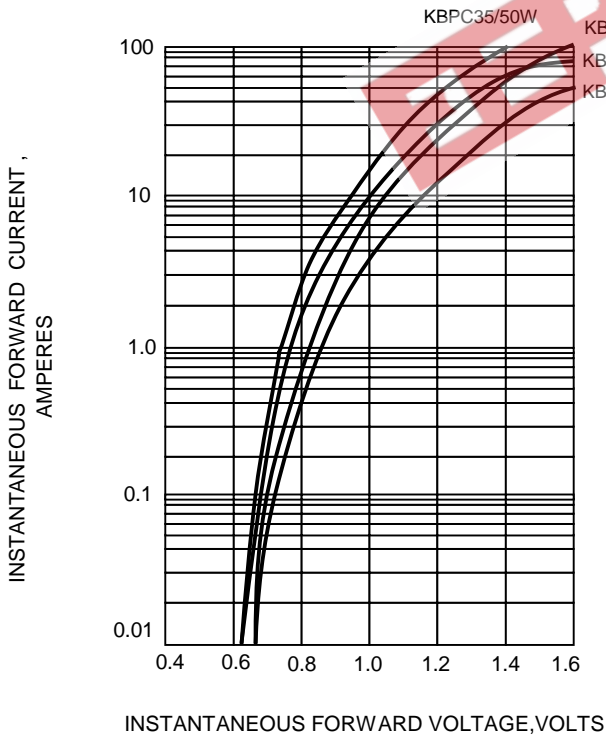


FIG.4-TYPICAL REVERSE CHARACTERISTICS

