# TKBPC10/15/25/35/50AW SERIES

**SILICON BRIDGE RECTIFIERS**

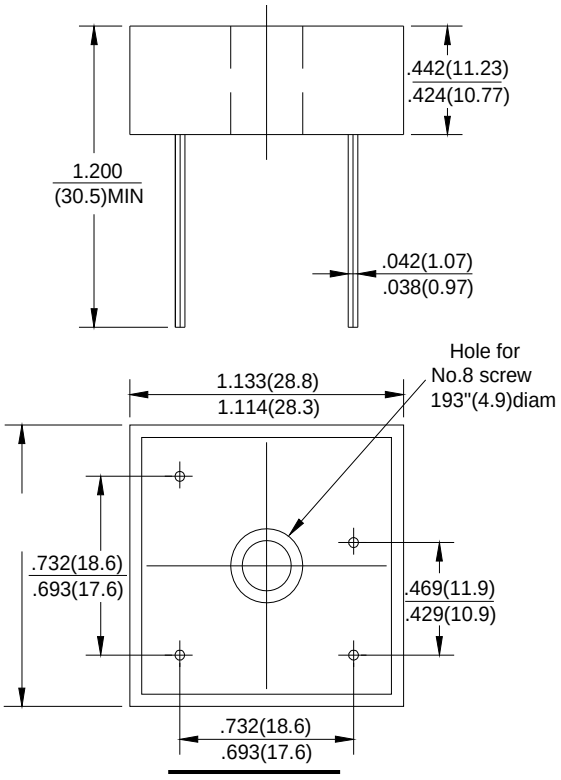
REVERSE VOLTAGE - **50** to **1000**Volts

FORWARD CURRENT - **10/15/25/35/50** Amperes

## Features

- Surge overload -240~500 Amperes peak
- Low forward voltage drop
- Mounting Position : Any
- Electrically isolated base -2000 Volts
- Materials used carries U/L recognition

## Dimensions In Inches and (milimeters)




**KBPC-W**

## *Part Number Code*

| T | K | B | P | C | 1 | 5 | 0 | 0 | 5 | W |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

| Product Type | |
|---|---|
| TSK | TKBPC series |

| Rectified Current | |
|---|---|
| 15 | 15A |
| 25 | 25A |
| 35 | 35A |

| Peak Repetitive Reverse Voltage (V) | |
|---|---|
| 005 | 50V |
| 01 | 100V |
| 02 | 200V |

| ZZZ | Internal code rule |
|---|---|

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Resistive or inductive load 60Hz.

For capacitive load current by 20%

| CHARACTERISTICS | SYMBOL | TKBPC-W | TKBPC-W | TKBPC-W | TKBPC-W | TKBPC-W | TKBPC-W | TKBPC-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 | |
| Maximum Recurrent Peak Reverse Voltag | $V_{RRM}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Bridge Input Voltag | $V_{RMS}$ | | | | | | | | |
| Maximum Average Forward Rectified Output Current @$T_C$=55℃ | $I_{(AV)}$ | TKBPC 10W | 10 | TKBPC 15W | 15 | TKBPC 25W | 25 | TKBPC 35W | 35 | TKBPC 50W | 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 @$T_J$ | $I_R$ | 10 | | | | | | | | | | μA |
| Operating Temperature Range | $T_J$ | -55 to +150 | | | | | | | | | | ℃ |
| Storage Temperature Range | $T_{STG}$ | -55 to +150 | | | | | | | | | | ℃ |

## RATING AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

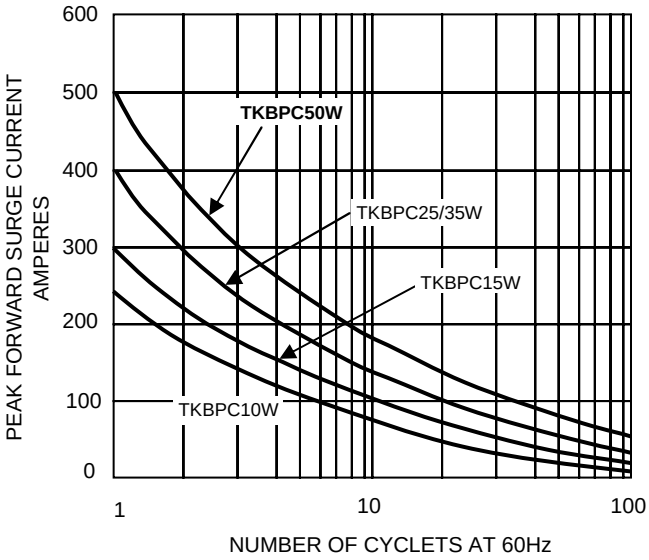



FIG.2- DERATING CURVE
OUTPUT RECTIFIED CURRENT

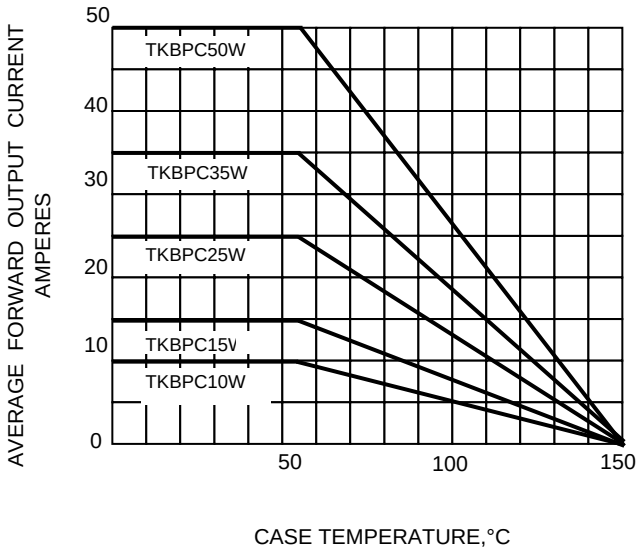



FIG.3-TYPICAL FORWARD
CHARACTERISTICS

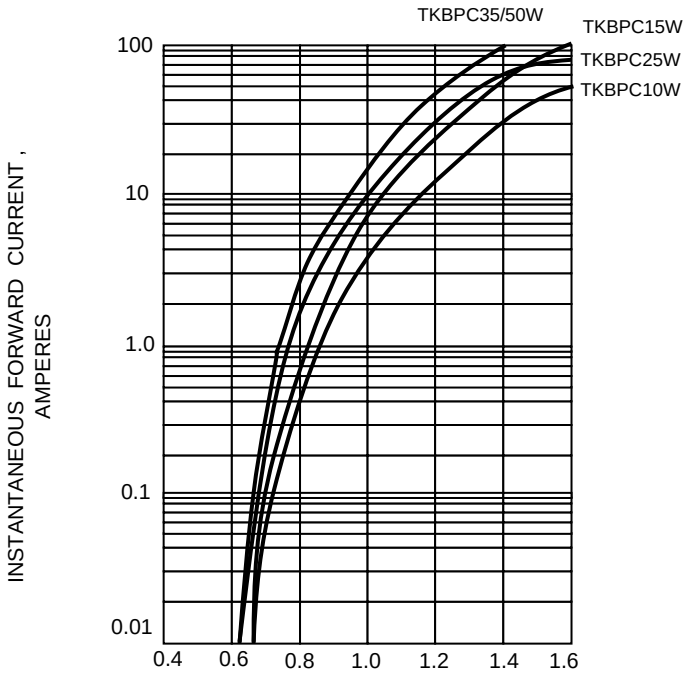
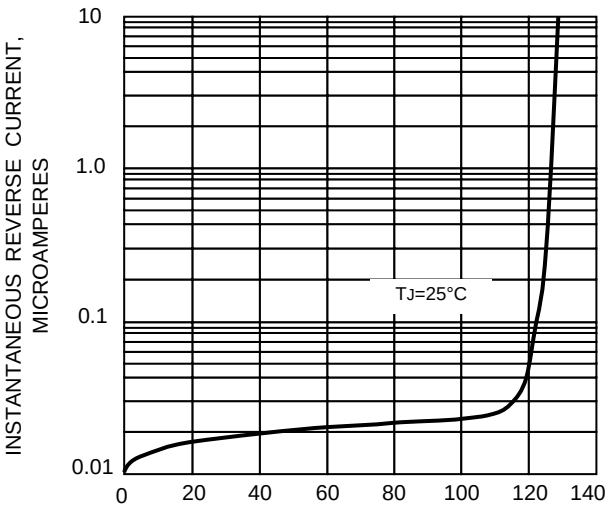



FIG.4-TYPICAL REVERSE
CHARACTERISTICS




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