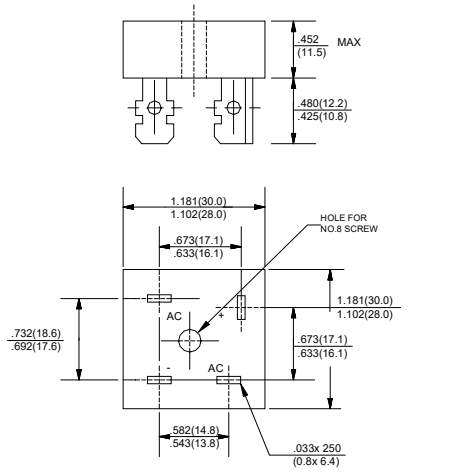
# SILICON BRIDGE RECTIFIERS

**VOLTAGE RANGE: 50 --- 1000 V**
**CURRENT: 35.0 A**

## FEATURES

- ◇ Rating to 1000V PRV
- ◇ 400 Amperes surge capability
- ◇ High efficincy
- ◇ Electrically isolated metal case for maximum heat dissipation
- ◇ Mounting: thru hole for # 8 screw Mounting

## KBPC35




inch (mm)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

| | | KBPC 35005 | KBPC 3501 | KBPC 3502 | KBPC 3504 | KBPC 3506 | KBPC 3508 | KBPC 3510 | UNITS |
|---|---|---|---|---|---|---|---|---|---|
| Maximum recurrent peak reverse voltage | $V_{RRM}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS voltage | $V_{RMS}$ | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking voltage | $V_{DC}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum average forw ard Output current @$T_A$=25℃ | $I_{F(AV)}$ | 35.0 | | | | | | | A |
| Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load | $I_{FSM}$ | 400.0 | | | | | | | A |
| Maximum instantaneous forw ard voltage @ 17.5 A | $V_F$ | 1.1 | | | | | | | V |
| Maximum reverse current @$T_A$=25℃ | $I_R$ | 10.0 | | | | | | | μA |
| at rated DC blocking voltage @$T_A$=100℃ | | 1.0 | | | | | | | mA |
| Operating junction temperature range | $T_J$ | - 55 ---- + 125 | | | | | | | ℃ |
| Storage temperature range | $T_{STG}$ | - 55 ---- + 150 | | | | | | | ℃ |

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**FIG.1 – PEAK FORWARD SURGE CURRENT**

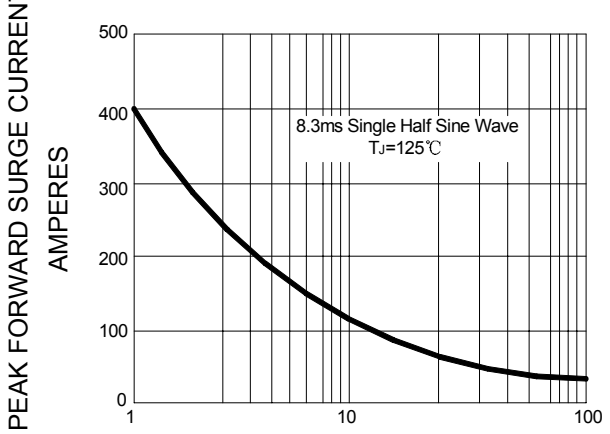



**FIG.2 – FORWARD DERATING CURVE**

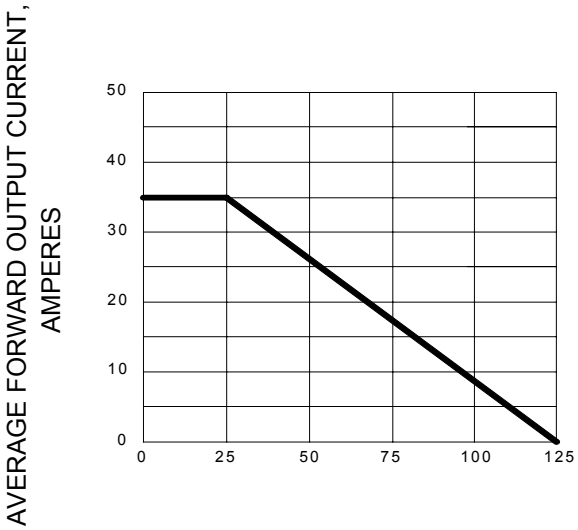



**FIG.3 – TYPICAL FORWARD CHARACTERISTIC**

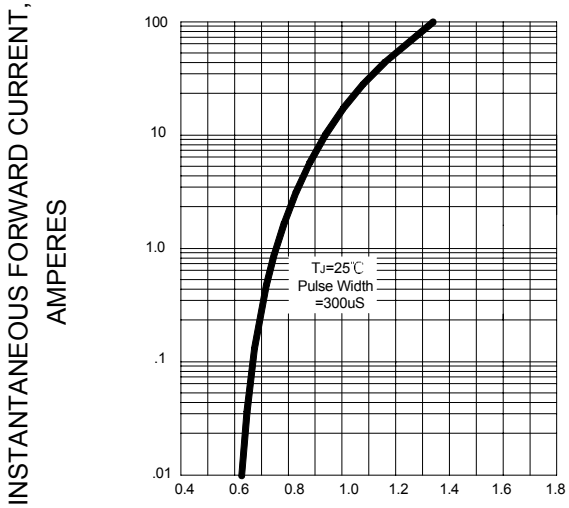



**FIG.4 – TYPICAL REVERSE CHARACTERISTIC**

