

SILICON BRIDGE RECTIFIER

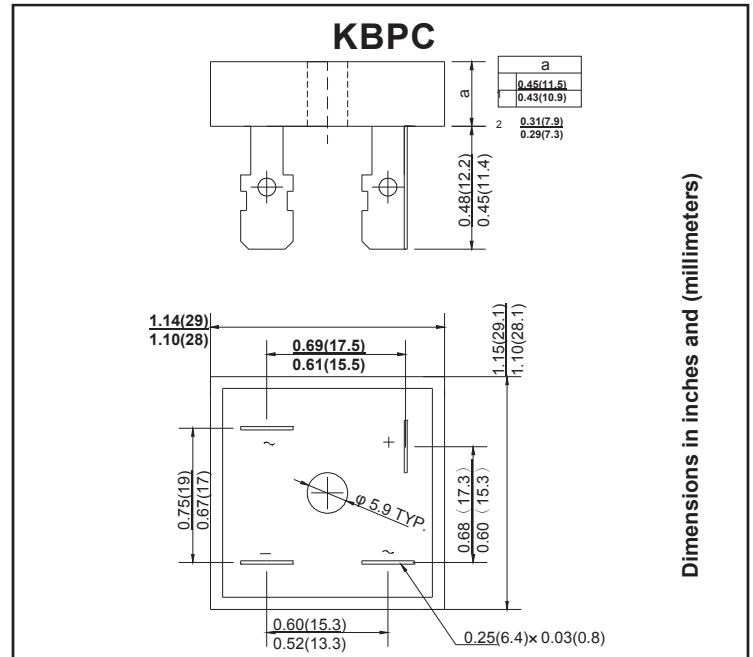
REVERSE VOLTAGE : 50 --- 1000 V CURRENT: 35.0 A

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 400Amperes peak Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product Lead solderable per MIL-STD-202 method 208
- High case dielectric with standing voltage of 2500 VRMS
- High efficiency

MECHANICAL DATA

- Case style: KBPC plastic molded
- Mounting: thru hole for # 8 screw mounting



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted) 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 forward Output current @ $T_A=25^\circ\text{C}$ | $I_{F(AV)}$ | 35.0 | | | | | | | A |
| Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load | I_{FSM} | 400.0 | | | | | | | A |
| Maximum instantaneous forward voltage @ 17.5 A | V_F | 1.1 | | | | | | | V |
| Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=100^\circ\text{C}$ | I_R | 10.0 1.0 | | | | | | | μA mA |
| Operating junction temperature range | T_J | - 55 ---- + 125 | | | | | | | $^\circ\text{C}$ |
| Storage temperature range | T_{STG} | - 55 ---- + 150 | | | | | | | $^\circ\text{C}$ |



RATINGS AND CHARACTERISTIC CURVES

FIG.1 – PEAK FORWARD SURGE CURRENT

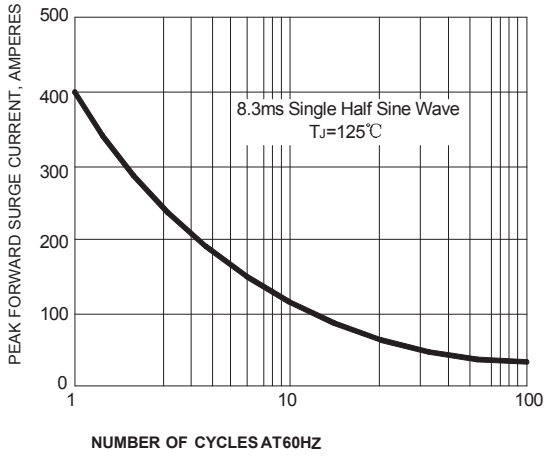


FIG.2 – FORWARD DERATING CURVE

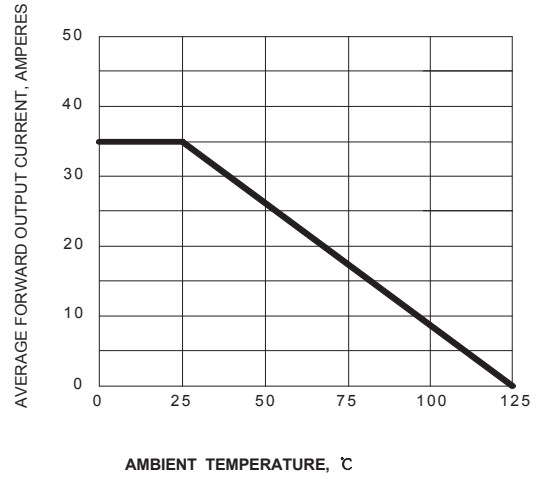


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

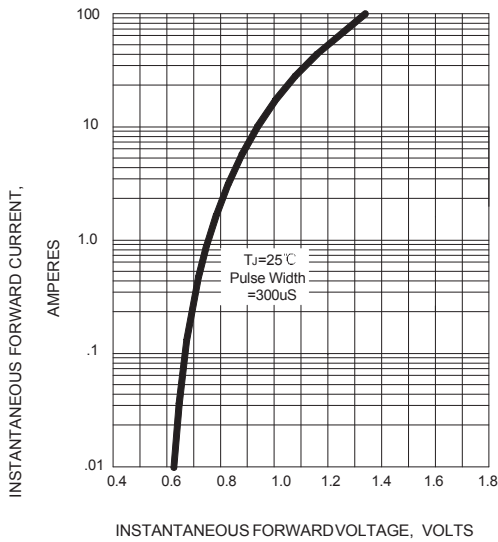


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

