JGD

# KBPC300 THRU KBPC310

## *SINGLE PHASE 3.0 AMPS. SILICON BRIDGE RECTIFIERS*

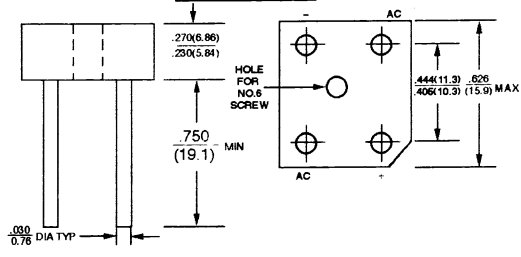


## VOLTAGE RANGE
50 to 1000 Volts
CURRENT
3.0 Amperes

## FEATURES

* Low forward voltage drop
* High Surge Current Capability
* Small size, simple installation
* Leads solderable per MIL-STD-202, method 208

## KBPC-3




Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

| TYPE NUMBER | SYMBOLS | KBPC 300 | KBPC 301 | KBPC 302 | KBPC 304 | KBPC 306 | KBPC 308 | KBPC 310 | UNITS |
|---|---|---|---|---|---|---|---|---|---|
| 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 D.C Blocking Voltage | $V_{DC}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current @ $T_C = 60℃$ | $I_{F(AV)}$ | 3.0 | | | | | | | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load(JEDEC method) | $I_{FSM}$ | 60 | | | | | | | A |
| Maximum Forward Voltage Drop per element @ 1.5A | $V_F$ | 1.10 | | | | | | | V |
| Maximum Reverse Current at Rated @ $T_A = 25℃$<br>D.C. Blocking Voltage per element @ $T_A = 100℃$ | $I_R$ | 10<br>500 | | | | | | | μA<br>μA |
| Operating Temperature Range | $T_J$ | − 55 to + 125 | | | | | | | ℃ |
| Storage Temperature Range | $T_{STG}$ | − 55 to + 150 | | | | | | | ℃ |

# RATINGS AND CHARACTERISTIC CURVES (KBPC300 THRU KBPC310)

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT-PER ELEMENT

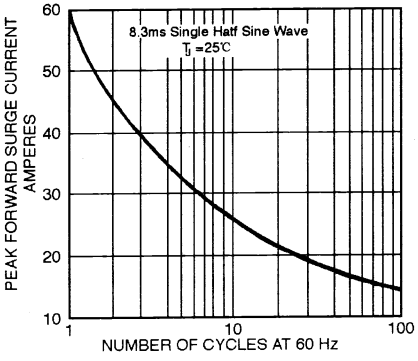



FIG.2-TYPICAL FORWARD OUTPUT CURRENT DERATING CURVE

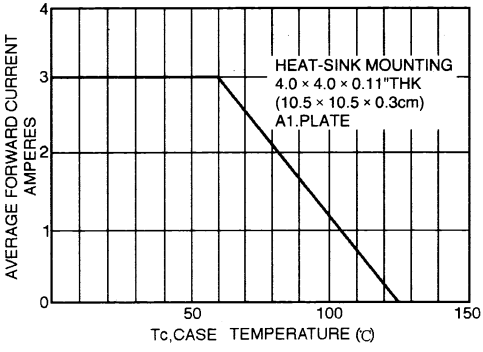



FIG.3-TYPICAL FORWARD CHARACTERISTICS-PER ELEMENT

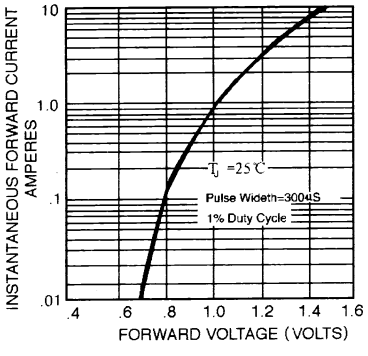



FIG.4-TYPICAL REVERSE CHARACTERISTICS PER ELEMENT

