HFZT

# KBJ15A --- KBJ15M

## SILICON BRIDGE RECTIFIER

**VOLTAGE RANGE: 50 --- 1000 V**
**CURRENT: 15.0 A**

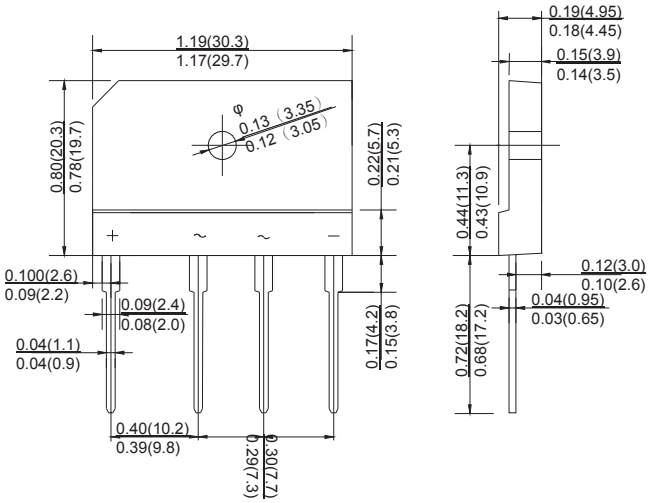
### FEATURES

- Rating to 1000V PRV
- Surge overload rating to 200 Amperes peak Ideal for printed circuit board
- Reliable low cost construction utilizing m olded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 m ethod 208

### MECHANCAL DATA

- Polarity:Sym bols molded on body
- Weight:0.23 ounces, 6.6 grams
- Mounting position: Any

### KBJ




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%.

| | | KBJ 15A | KBJ 15B | KBJ 15D | KBJ 15G | KBJ 15J | KBJ 15K | KBJ 15M | 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 @$T_A$=100℃ | $I_{F(AV)}$ | 15.0 | | | | | | | A |
| Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load | $I_{FSM}$ | 200.0 | | | | | | | A |
| Maximum instantaneous forw ard voltage at 7.5 A | $V_F$ | 1.0 | | | | | | | V |
| Maximum reverse current @$T_A$=25℃ | $I_R$ | 10.0 | | | | | | | μA |
| at rated DC blocking voltage @$T_A$=100℃ | | 1.0 | | | | | | | mA |
| Typical junction capacitance per element | $C_J$ | 85 | | | | | | | pF |
| Typical thermal resistance | $R_{\theta JC}$ | 0.6 | | | | | | | ℃/W |
| Operating junction temperature range | $T_J$ | - 55 ---- + 150 | | | | | | | ℃ |
| Storage temperature range | $T_{STG}$ | - 55 ---- + 150 | | | | | | | ℃ |

NOTES:1.Measured at 1.0$MH_Z$ and applied reverse voltage of 4.0V DC

2.Device mounted on 300mm X 300mm X 1.6mm cu Plate heatsink.

# RATINGS AND CHARACTERISTIC CURVES

## *KBJ15A --- KBJ15M*

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

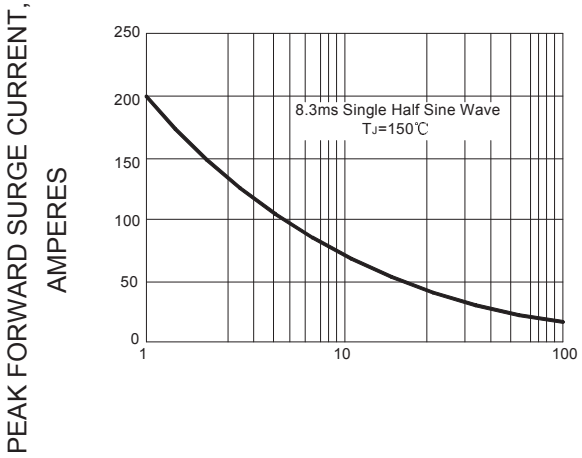



**FIG.2 -- FORWARD DERATING CURVE**

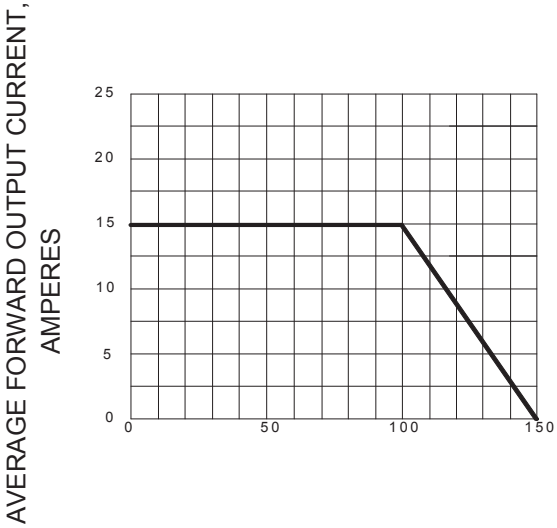



**FIG.3 -- TYPICAL FORWARD CHARACTERISTIC**

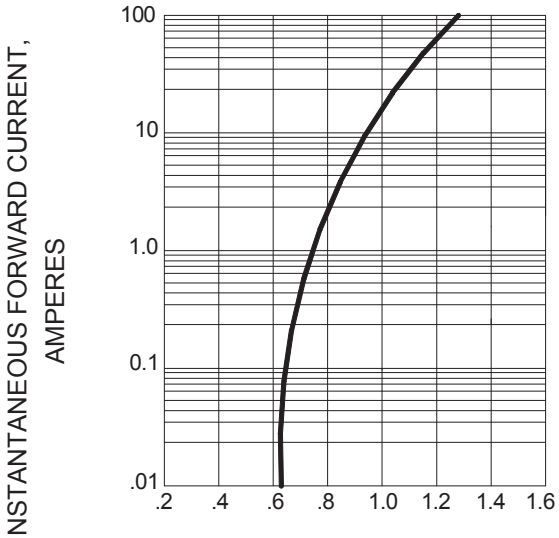



**FIG.4 -- TYPICAL JUNCTION CAPACITANCE**