



HFZT

KBJ10A --- KBJ10M

## SILICON BRIDGE RECTIFIER

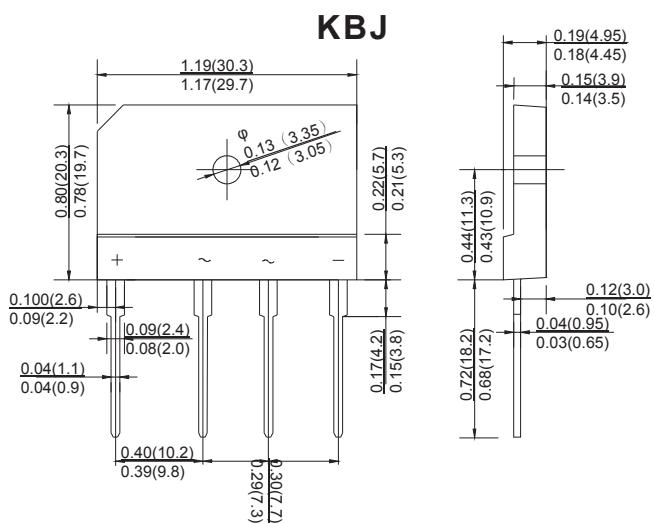
VOLTAGE RANGE: 50 --- 1000 V  
CURRENT: 10.0 A

## FEATURES

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

## MECHANICAL DATA

- Polarity: Symbols molded on body
- Weight: 0.23 ounces, 6.6 gram s
- Mounting position: Any



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 10A	KBJ 10B	KBJ 10D	KBJ 10G	KBJ 10J	KBJ 10K	KBJ 10M	UNITS
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum average forward current Output current @ T <sub>A</sub> =110°C	I <sub>F(AV)</sub>								A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I <sub>FSM</sub>								A
Maximum instantaneous forward voltage at 5.0 A	V <sub>F</sub>								V
Maximum reverse current @ T <sub>A</sub> =25°C at rated DC blocking voltage @ T <sub>A</sub> =100°C	I <sub>R</sub>								µA mA
Typical junction capacitance per element	C <sub>J</sub>								pF
Typical thermal resistance	R <sub>θJC</sub>								°C/W
Operating junction temperature range	T <sub>J</sub>				- 55 ---- + 150				°C
Storage temperature range	T <sub>STG</sub>				- 55 ---- + 150				°C

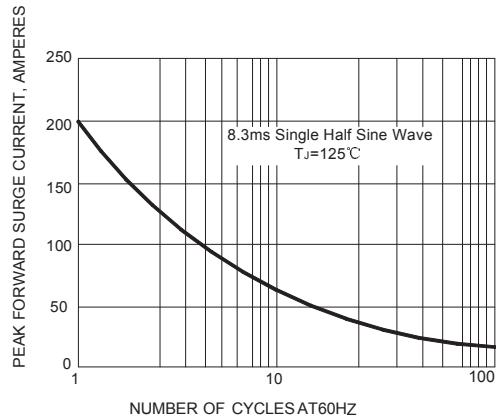
NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC

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

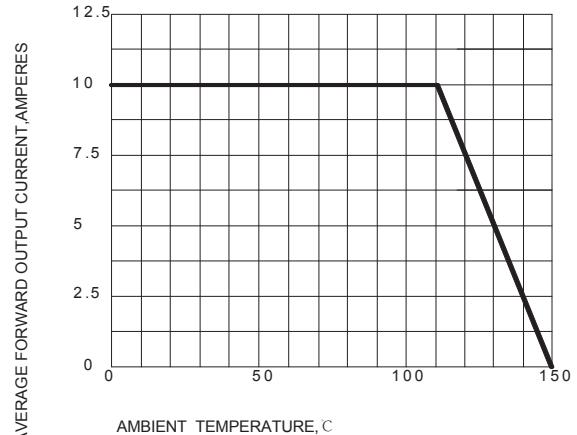


## RATINGS AND CHARACTERISTIC CURVES

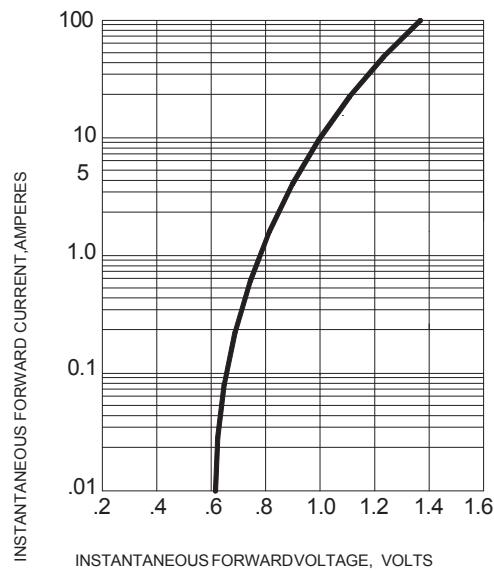
**FIG.1 – PEAK FORWARD SURGE CURRENT**



**FIG.2 – FORWARD DERATING CURVE**



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



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

