



HFZT

KBJ6A --- KBJ6M

SILICON BRIDGE RECTIFIER

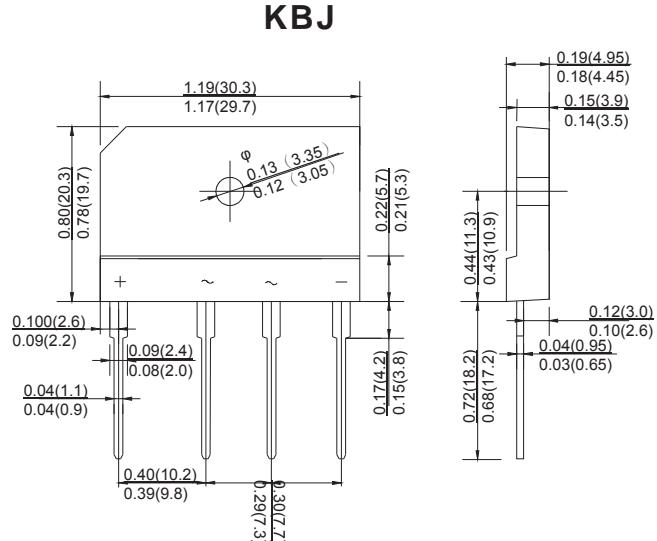
VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 6.0 A

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 150 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
- Glass passivated chip junctions

MECHANICAL DATA

- Polarity: Symbols molded on body
- 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 6A	KBJ 6B	KBJ 6D	KBJ 6G	KBJ 6J	KBJ 6K	KBJ 6M	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 =110°C	I _{F(AV)}					6.0			A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}					150.0			A
Maximum instantaneous forward voltage at 3.0 A	V _F				1.0				V
Maximum reverse current @ T _A =25°C at rated DC blocking voltage @ T _A =100°C	I _R				10.0				µA
Typical junction capacitance per element	C _J				55				pF
Typical thermal resistance	R _{θJC}				1.8				°C/W
Operating junction temperature range	T _J				- 55 ---- + 150				°C
Storage temperature range	T _{STG}				- 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

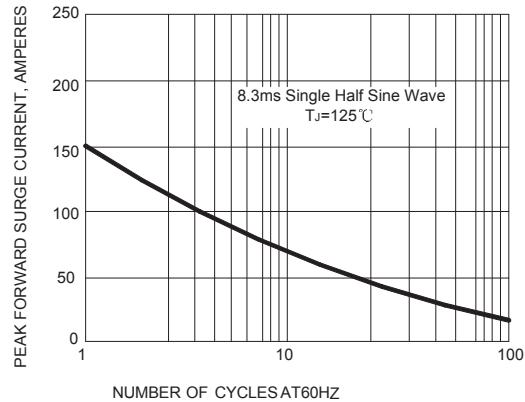


FIG.2 – FORWARD DERATING CURVE

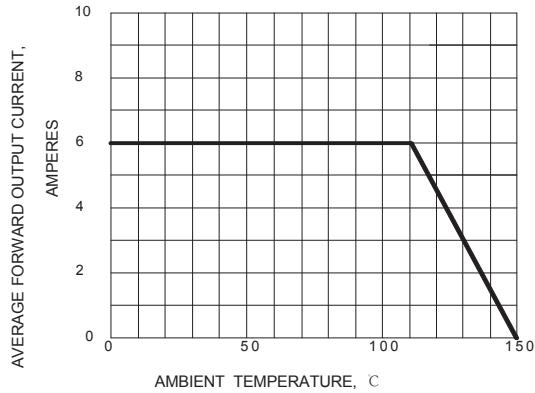


FIG.3 -- TYPICAL FORWARD CHARACTERISTIC

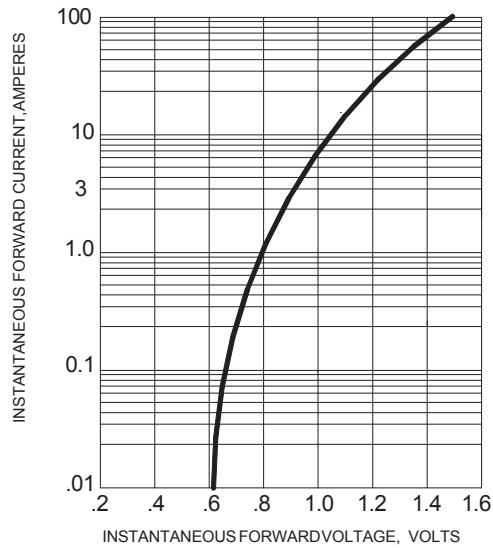


FIG.4 -- TYPICAL JUNCTION CAPACITANCE

