KBJ6AA-KBJ6MA

Silicon Bridge Rectifiers

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

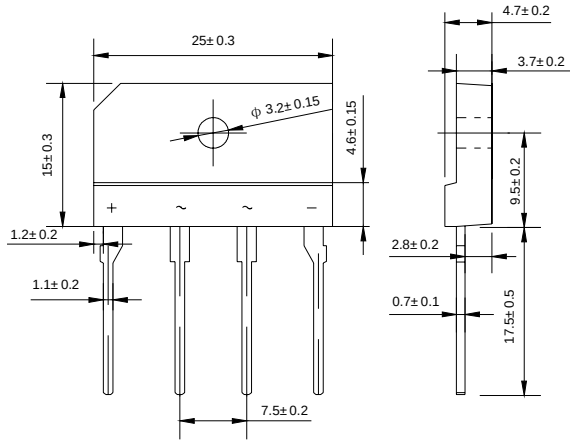
Features

- ◇ Rating to 1000V PRV
- ◇ Surge overload rating to 170 Amperes 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

Mechanical Data

- ◇ Polarity:Symbols molded on body
- ◇ Weight:0.16 ounces, 4.45 grams
- ◇ Mounting position: Any

KBJ4



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		KBJ 6AA	KBJ 6BA	KBJ 6DA	KBJ 6GA	KBJ 6JA	KBJ 6KA	KBJ 6MA	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_C=110℃	$I_{F(AV)}$	6.0							A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load	I_{FSM}	170							A
Maximum instantaneous forw ard voltage at 3.0 A	V_F	1.1							V
Maximum reverse current @T_A=25℃	I_R	10							μA
at rated DC blocking voltage @T_A=125℃		1.0							mA
Typical junction capacitance per element (NOTE1)	C_J	45							pF
Typical thermal resistance (NOTE2)	$R_{\theta JC}$	2.2							℃/W
Operating junction temperature range	T_J	- 55 ---- + 150							℃
Storage temperature range	T_{STG}	- 55 ---- + 150							℃

NOTES:1.Measured at 1.0MH_Z and applied rev erse v oltage of 4.0V DC.

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

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Ratings AND Charactieristic Curves

FIG.1 – PEAK FORWARD SURGE CURRENT

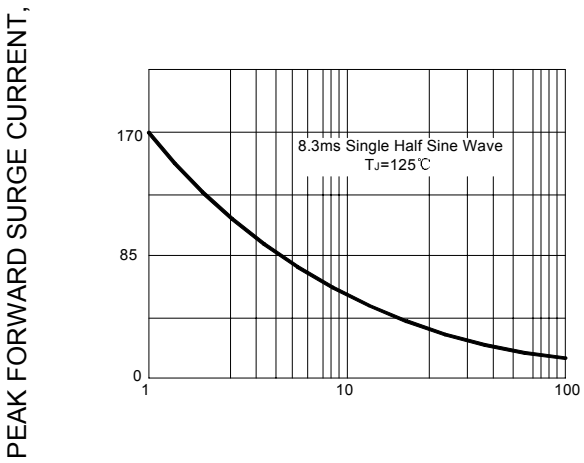

FIG.2 – FORWARD DERATING CURVE

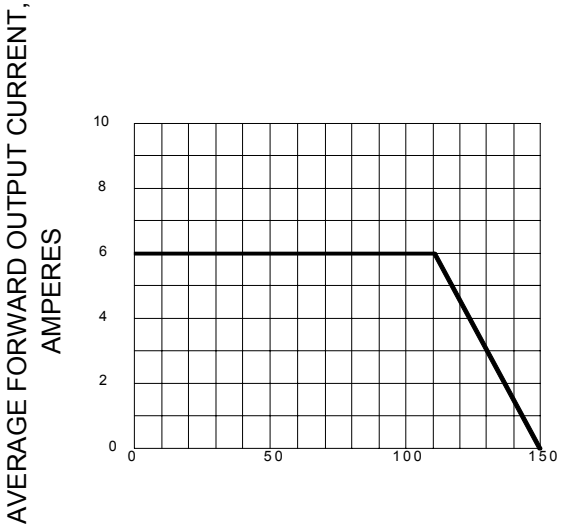

FIG.3 – TYPICAL FORWARD CHARACTERISTIC

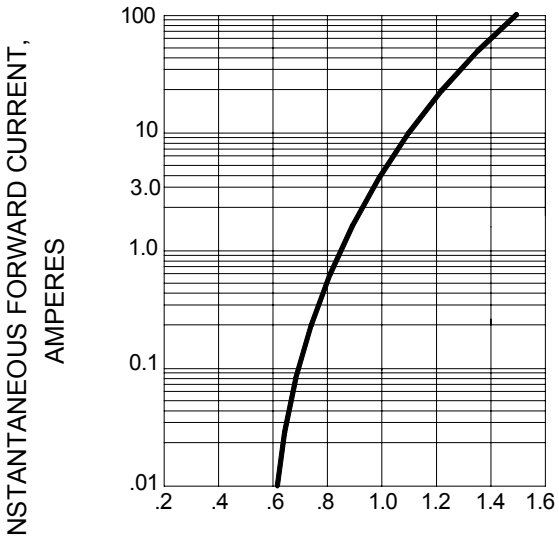

FIG.4 – TYPICAL JUNCTION CAPACITANCE