



Silicon Bridge Rectifiers

KBJ4A--KBJ4M

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 150 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



Lead-free

MECHANICAL DATA

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

Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	KBJ4A	KBJ4B	KBJ4D	KBJ4G	KBJ4J	KBJ4K	KBJ4M	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 @TA=100°C	$I_{F(AV)}$	4.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	150.0							A

Thermal Characteristics

Characteristic	Symbol	KBJ4A	KBJ4B	KBJ4D	KBJ4G	KBJ4J	KBJ4K	KBJ4M	UNITS
Typical junction capacitance per element	C_J	45							pF
Typical thermal resistance	$R_{\theta JC}$	2.2							°C/W
Operating junction temperature range	T_J	- 55 ---- + 150							°C
Storage temperature range	T_{STG}	- 55 ---- + 150							°C

Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	KBJ4A	KBJ4B	KBJ4D	KBJ4G	KBJ4J	KBJ4K	KBJ4M	UNITS
Maximum instantaneous forward voltage @2.0A	V_F	1.0							V
Maximum reverse current @TA=25 °C at rated DC blocking voltage @TA=100°C	I_R	10.0							μA
		1.0							mA

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

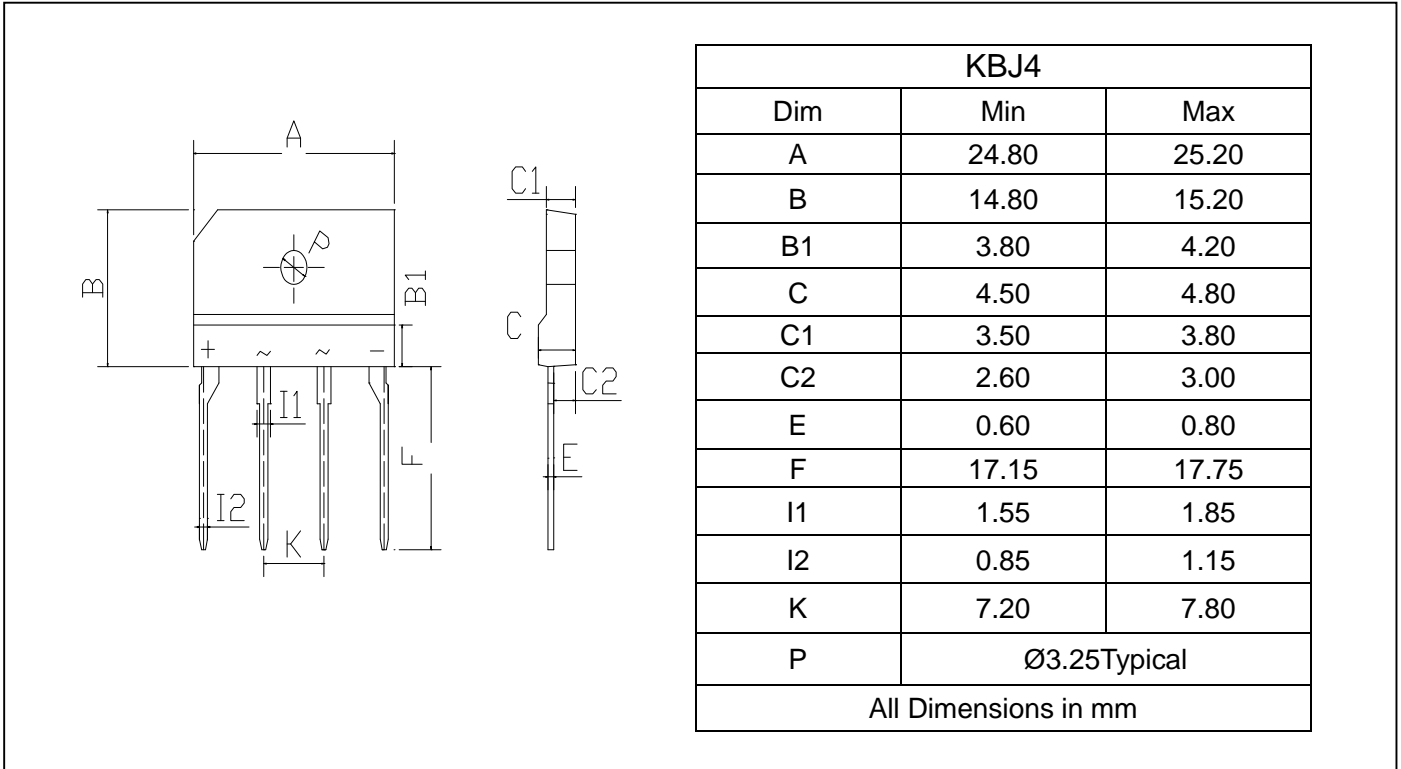
2. Device mounted on 300mm X 300mm X 1.6mm cu Plate heatsink.



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PACKAGE OUTLINE DIMENSIONS



PACKAGE INFORMATION

Device	Package	Shipping
KBJ4A--KBJ4M	KBJ4	250 Units/Box



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FIG.1 – PEAK FORWARD SURGE CURRENT

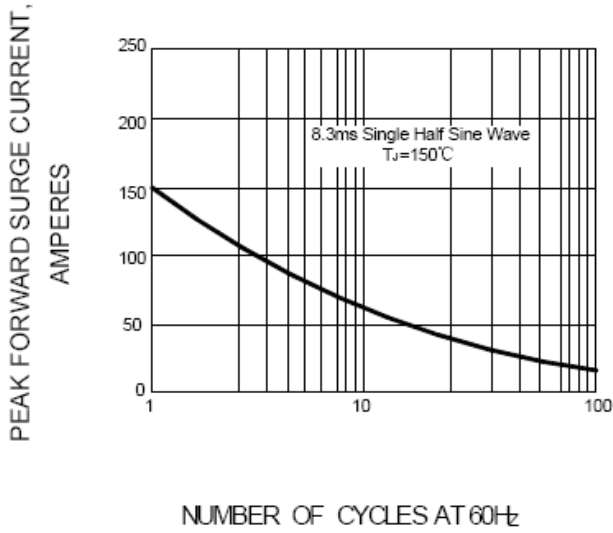


FIG.2 – FORWARD DERATING CURVE

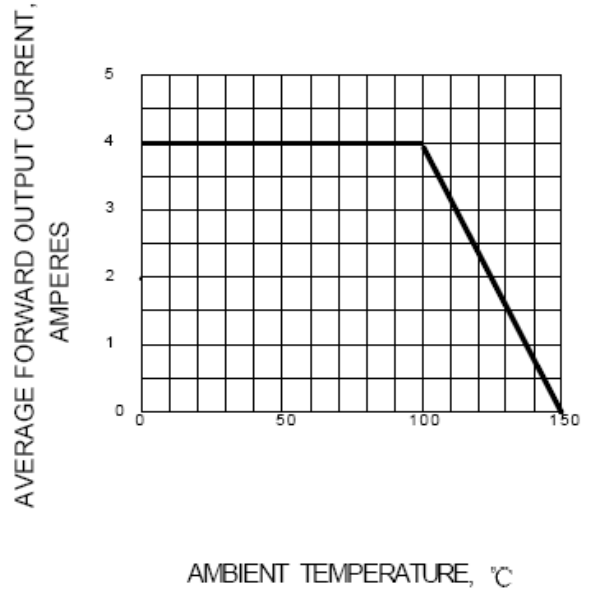


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

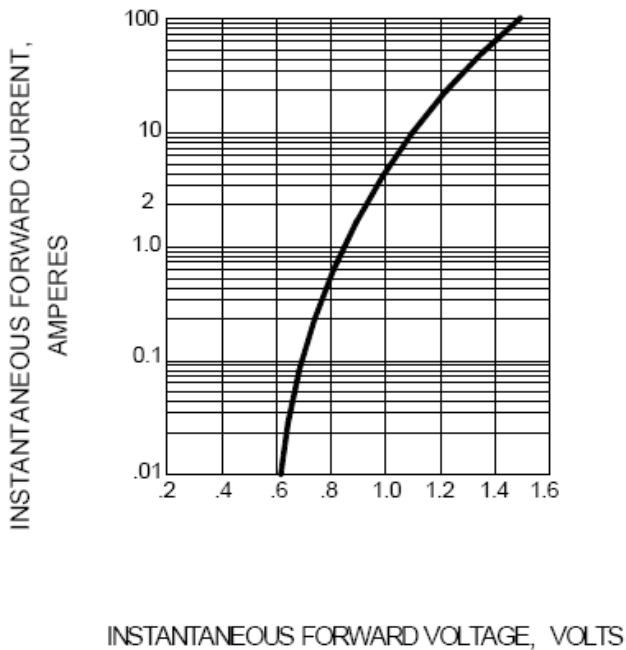


FIG.4 – TYPICAL JUNCTION CAPACITANCE

