

SILICON BRIDGE RECTIFIER

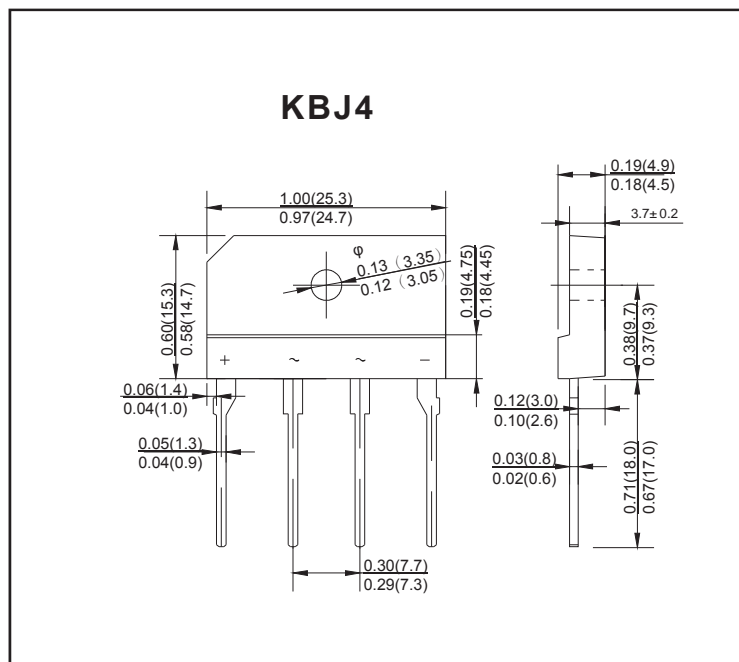
VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 4.0 A

FEATURES

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

MECHANICAL DATA

- Polarity: Symbols molded on body
- Mounting position: Any



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 4A	KBJ 4B	KBJ 4D	KBJ 4G	KBJ 4J	KBJ 4K	KBJ 4M	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 @ $T_A=100^\circ\text{C}$	$I_{F(AV)}$	4.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	150.0							A
Maximum instantaneous forward voltage at 2.0 A	V_F	1.0							V
Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=100^\circ\text{C}$	I_R	10.0 1.0							μA mA
Typical junction capacitance per element	C_J	45							pF
Typical thermal resistance	$R_{\theta JC}$	2.2							$^\circ\text{C}/\text{W}$
Operating junction temperature range	T_J	- 55 --- + 150							$^\circ\text{C}$
Storage temperature range	T_{STG}	- 55 --- + 150							$^\circ\text{C}$

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

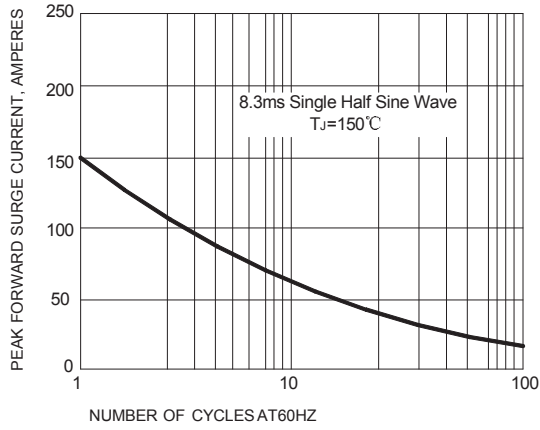


FIG.2 – FORWARD DERATING CURVE

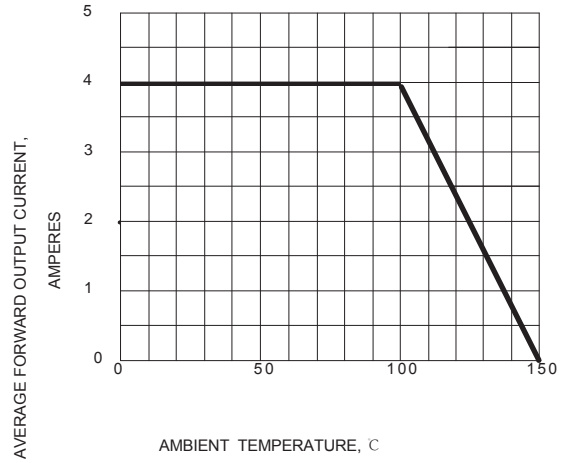


FIG.3 -- TYPICAL FORWARD CHARACTERISTIC

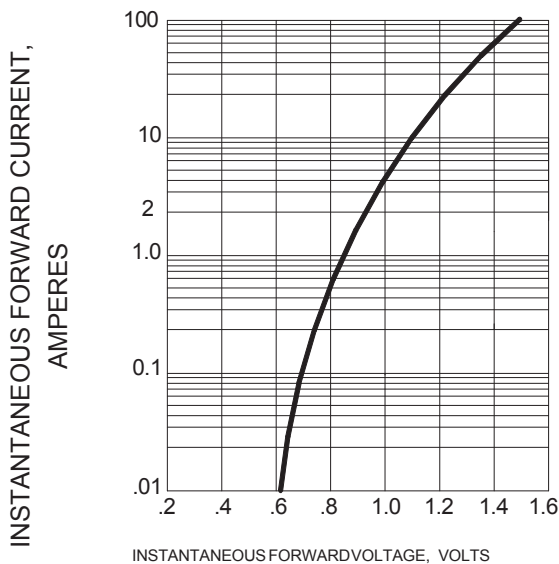


FIG.4 -- TYPICAL JUNCTION CAPACITANCE

