

SILICON BRIDGE RECTIFIER

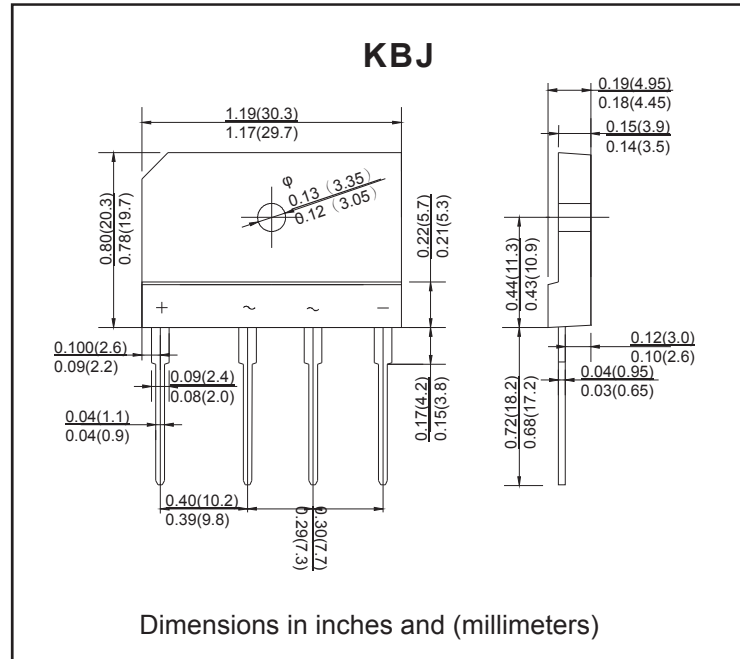
VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 8.0 A

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 200 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

MECHANCAL DATA

- Polarity:Sym bols molded on body
- Weight:0.23 ounces, 6.6 grams
- 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 8A	KBJ 8B	KBJ 8D	KBJ 8G	KBJ 8J	KBJ 8K	KBJ 8M	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 @ $T_A=110^\circ\text{C}$	$I_{F(AV)}$	8.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	200.0							A
Maximum instantaneous forward voltage at 4.0 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	55							pF
Typical thermal resistance	$R_{\theta JC}$	1.6							$^\circ\text{C}/\text{W}$
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

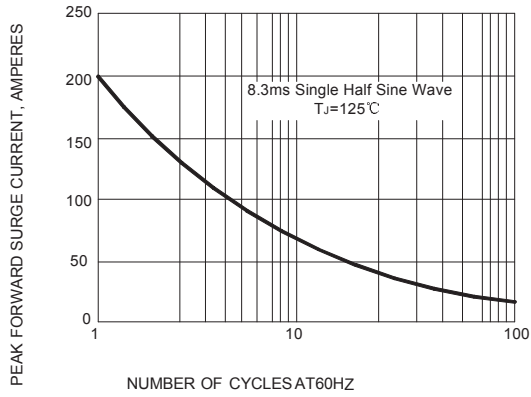


FIG.2 – FORWARD DERATING CURVE

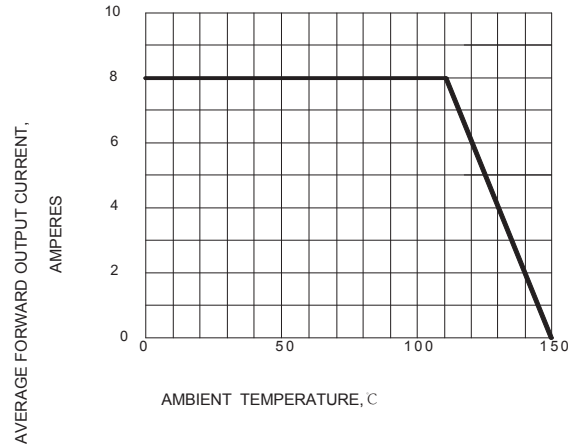


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

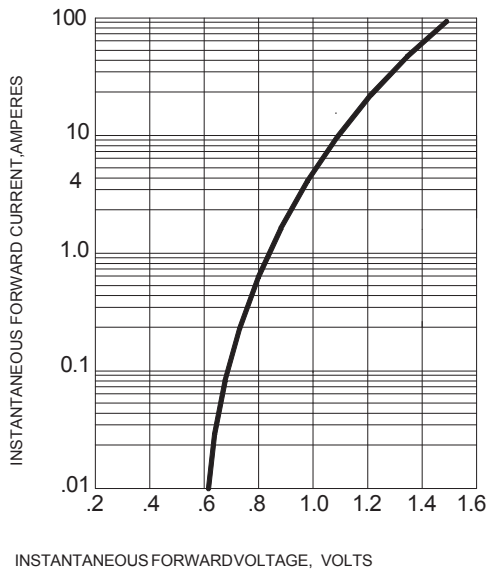


FIG.4 – TYPICAL JUNCTION CAPACITANCE

