

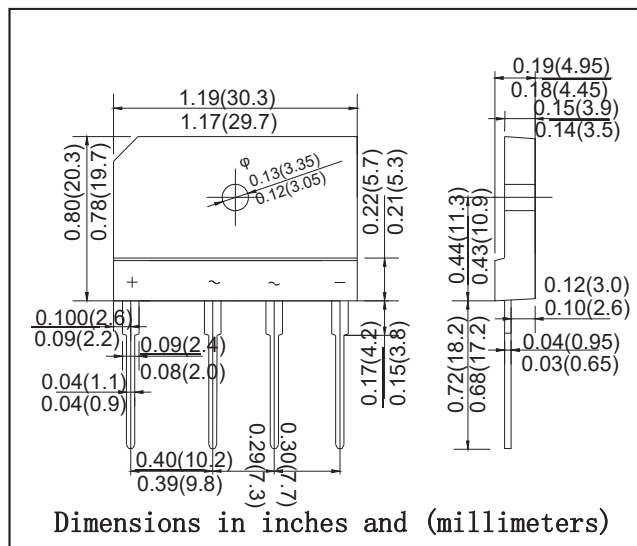
KBJ SILICON BRIDGE RECTIFIER

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High reliability
- High temperature soldering guaranteed: 260 °C/10 seconds at terminals
- Component in accordance to RoHS 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case style: KBJ molded plastic
- Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

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							$^{\circ}\text{C/W}$
Operating junction temperature range	T_J	- 55 ---- + 150							$^{\circ}\text{C}$
Storage temperature range	T_{STG}	- 55 ---- + 150							$^{\circ}\text{C}$

RATINGS AND CHARACTERISTIC CURVES

FIG.1 – PEAK FORWARD SURGE CURRENT

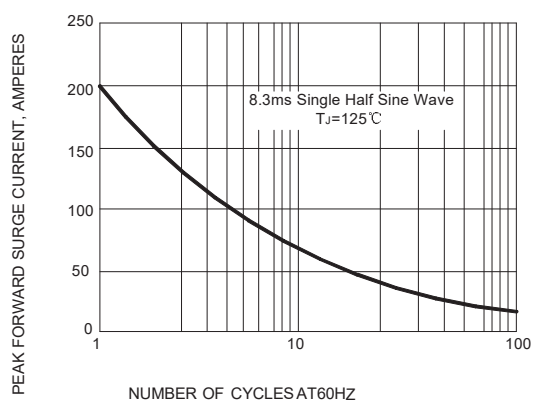


FIG.2 – FORWARD DERATING CURVE

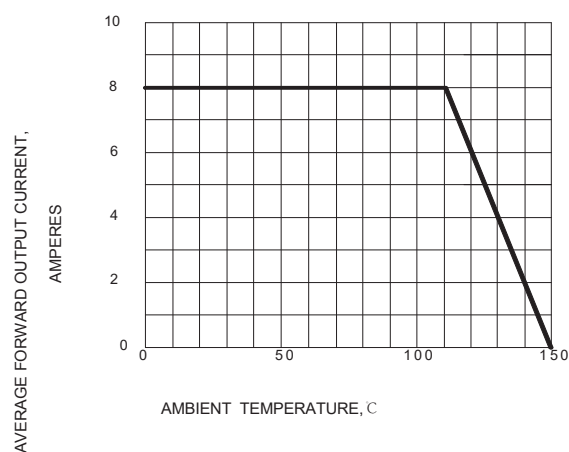


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

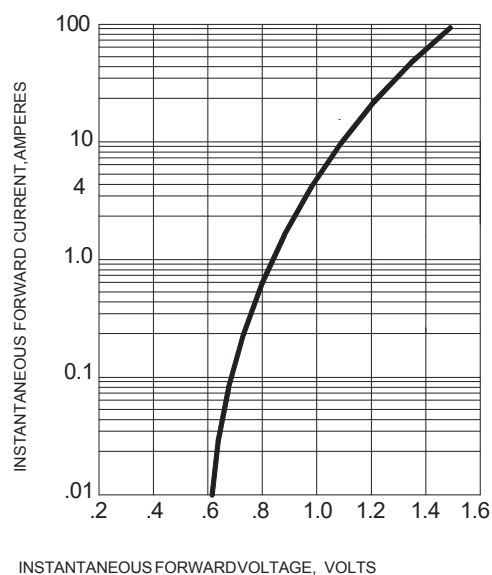


FIG.4 – TYPICAL JUNCTION CAPACITANCE

