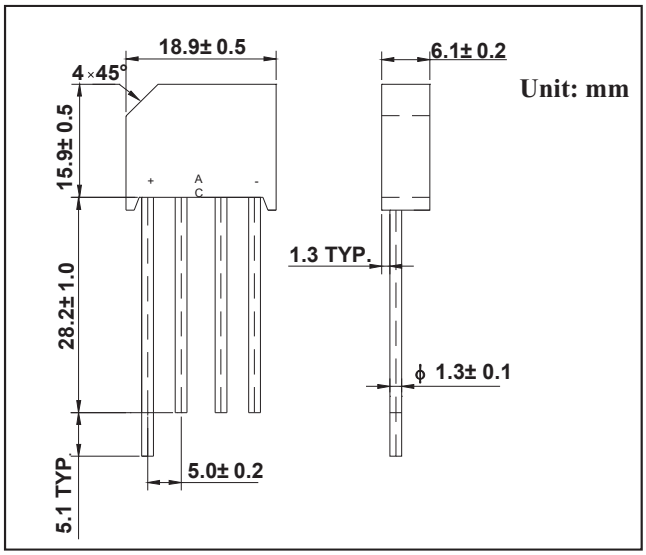
KBL SILICON BRIDGE RECTIFIERV

FEATURES

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

MECHANICAL DATA

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



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%.

		KBL4005	KBL401	KBL402	KBL403	KBL404	KBL406	KBL408	KBL410	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum average forw ard Output current @T_A=50℃	$I_{(AV)}$	4.0								A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load	I_{FSM}	150								A
Maximum instantaneous forw ard voltage at 2.0 A	V_F	1.0								V
Maximum reverse current @T_A=25℃	I_R	10								μA
at rated DC blocking voltage @T_A=100℃		1								mA
Operating junction temperature range	T_j	- 55 ---- + 150								℃
Storage temperature range	T_{STG}	- 55 ---- + 150								℃

RATINGS AND CHARACTERISTIC CURVES

FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE

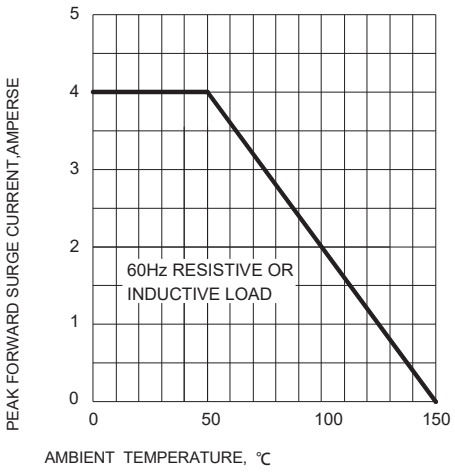


FIG.2 – MAXIMUM FORWARD SURGE CURRENT

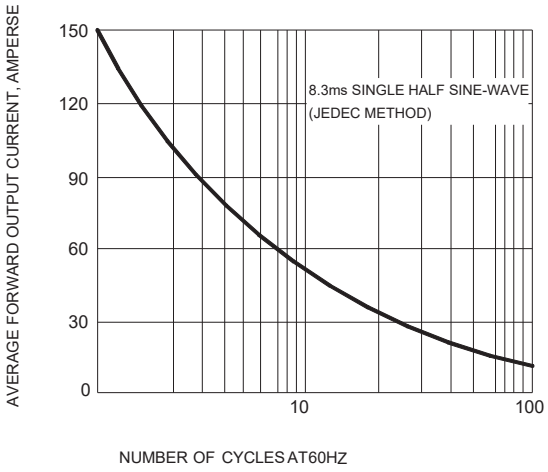


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

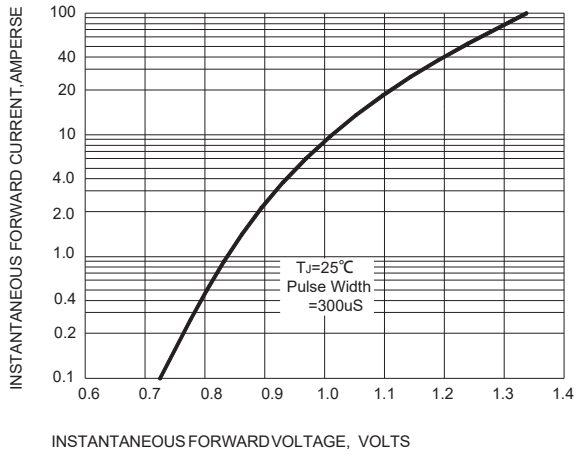


FIG.4 – TYPICAL REVERSE CHARACTERISTIC