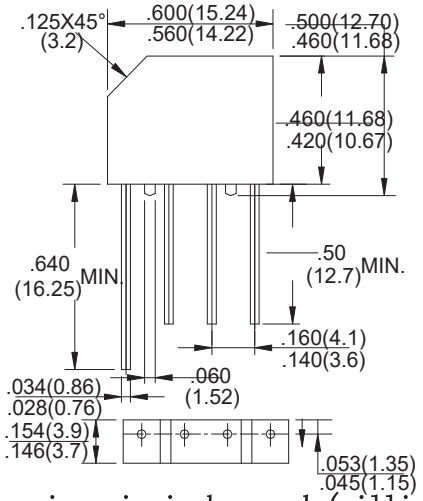
KBP SILICON BRIDGE RECTIFIERV

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: KBP molded plastic
- Mounting position: Any



Dimensions in inches and (millimeters)

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%.

CHARACTERISTICS	SYMBOL	KBP 3005	KBP 301	KBP 302	KBP 304	KBP 306	KBP 308	KBP 310	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input 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 Rectified Output Current @T_A=50 ℃	$I_{(AV)}$	3							A
Peak Forward Surage Current , 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I_{FSM}	60							A
Maximum Forward Voltage Drop Per Bridge Element at 2.0A Peak	V_F	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element	I_R	10.0							uA
Maximum Reverse Current at Rated DC Blocking Voltage Per Element @T_A=100℃	I_R	1.0							mA
Operating Temperature RangeT_J	T_J	-55 to +150							℃
Storage Temperature Range T_A	T_{STG}	-55 to +150							℃

RATINGS AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE
OUTPUT RECTIFIED CURRENT

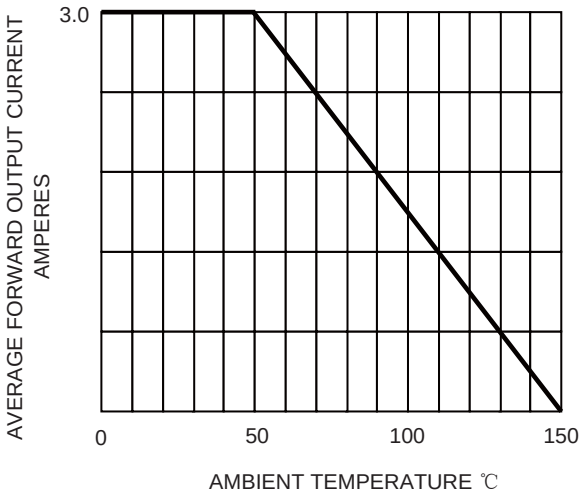


FIG.2-TYPICAL FORWARD
CHARACTERISTICS

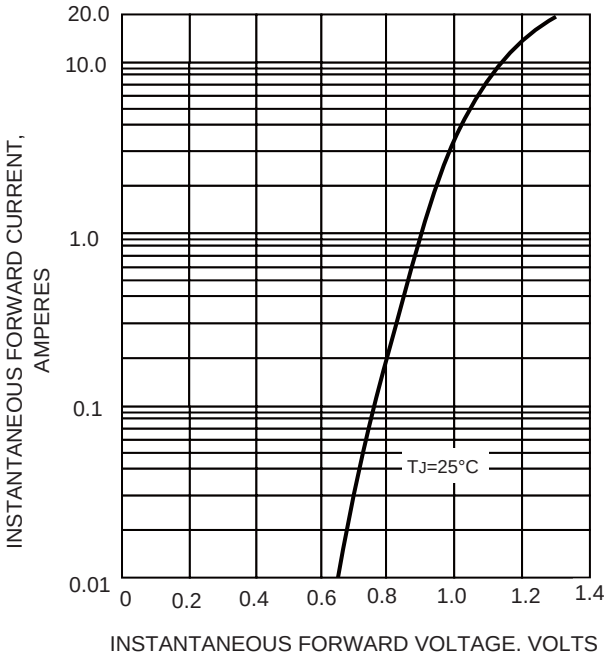


FIG.3-TYPIACL REVERSE CHARACTERISTICS

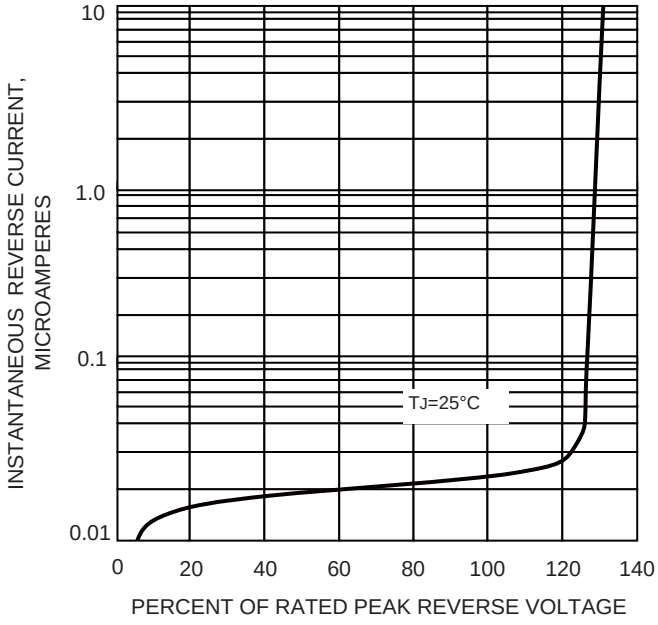
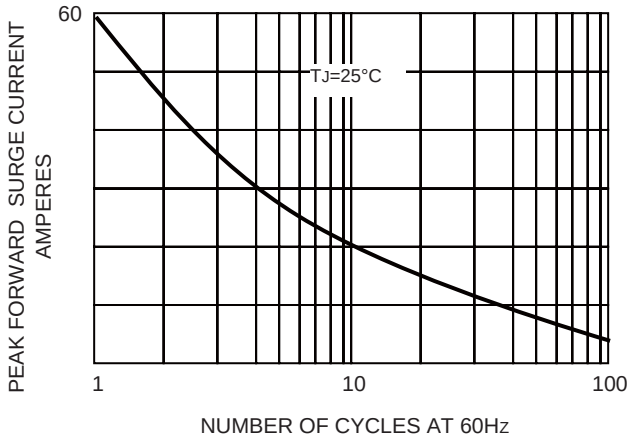



FIG.4-MAXIMUM FORWARD SURGE CURRENT