SHANGHAI SUNRISE ELECTRONICS CO., LTD.

KBL401 THRU KBL407

SINGLE PHASE SILICON
BRIDGE RECTIFIER

TECHNICAL SPECIFICATION

VOLTAGE: 50 TO 1000V CURRENT: 4.0A

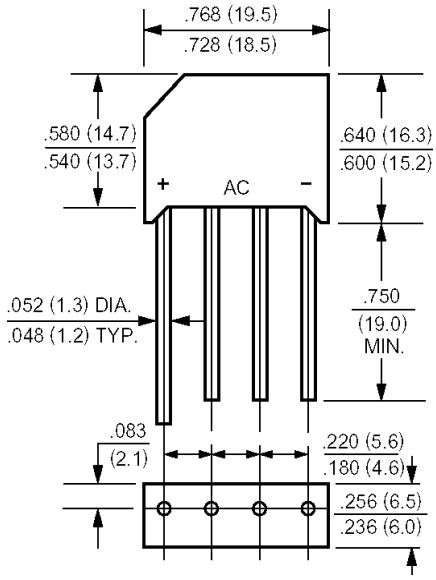
FEATURES

- Ideal for printed circuit board
- Surge overload rating: 200 A peak
- High case dielectric strength
- High temperature soldering guaranteed: 250^{o}C/10sec/0.375"(9.5mm) lead length at 5 lbs tension

MECHANICAL DATA

- Terminal: Plated leads solderable per MIL-STD 202E, method 208C
- Case: UL-94 Class V-O recognized flame retardant epoxy
- Polarity: Polarity symbol marked on body
- Mounting position: Any

KBL4



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25^{o}C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	KBL 401	KBL 402	KBL 403	KBL 404	KBL 405	KBL 406	KBL 407	UNITS
Maximum Repetitive 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 Rectified Current (T_a=50^{o}C)	$I_{F(AV)}$	4.0							A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I_{FSM}	200							A
Maximum Instantaneous Forward Voltage (at forward current 4.0A DC)	V_F	1.1							V
Maximum DC Reverse Current T_a=25^{o}C (at rated DC blocking voltage) T_a=100^{o}C	I_R	10.0 500							µA µA
Operating Temperature Range	T_J	-55 to +125							^{o}C
Storage Temperature	T_{STG}	-55 to +150							^{o}C