

KBL005 THRU KBL10

SINGLE PHASE SILICON BRIDGE RECTIFIER

VOLTAGE: 50 to 1000V

CURRENT: 4.0A

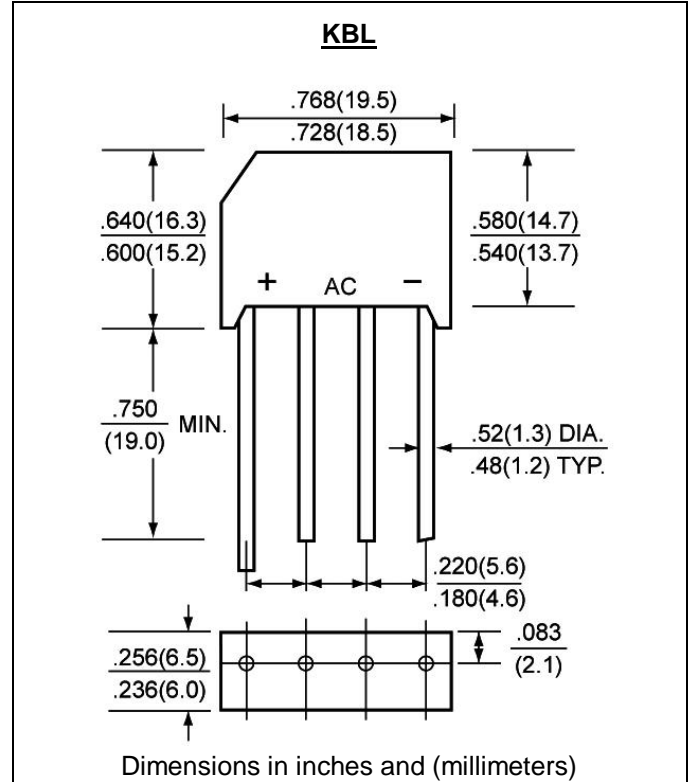


FEATURE

Ideal for printed circuit board
Surge overload rating:200 A peak
High case dielectric strength

MECHANICAL DATA

Terminal: Plated leads solderable per J-STD-002
Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: Polarity symbol marked on body
Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	KBL 005	KBL 01	KBL 02	KBL 04	KBL 06	KBL 08	KBL 10	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 Rectified Current at Ta =40°C	I _{f(av)}	4.0							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 forward current 4.0A DC	V _f	1.1							V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	I _r	10.0 1.0							μA mA
Operating Temperature Range	T _j	-55 to +125							°C
Storage and Operation Junction Temperature	T _{stg}	-55 to +150							°C

RATINGS AND CHARACTERISTIC CURVES KBL005 THRU KBL10

FIG. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT

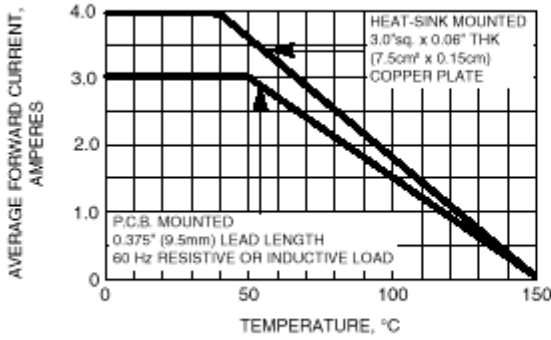


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

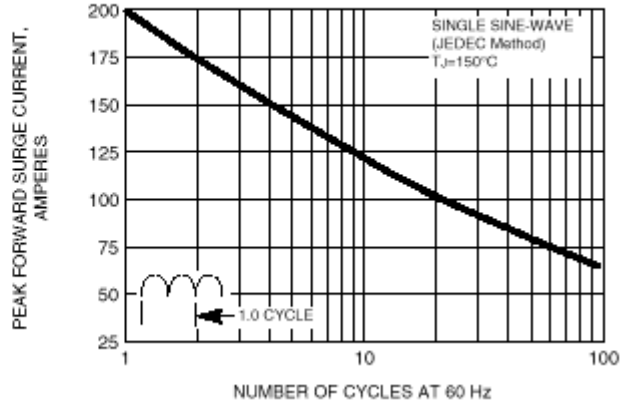


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

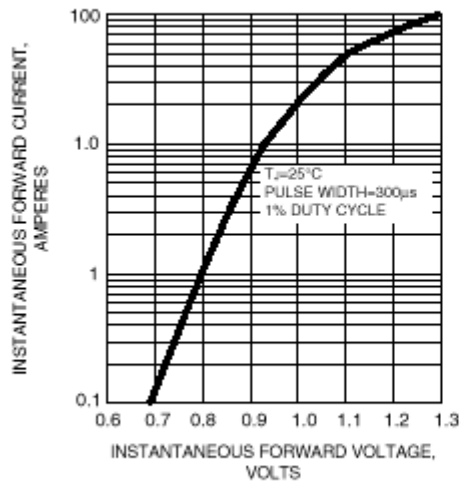


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

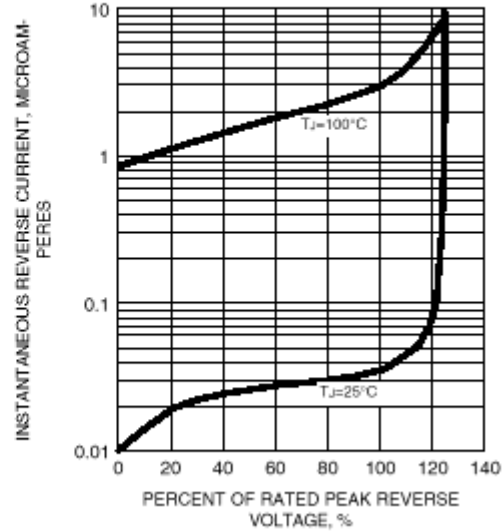


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG

