

# KBL005 THRU KBL10

## SINGLE PHASE SILICON BRIDGE RECTIFIER

VOLTAGE:50 TO 1000V      CURRENT:4.0A

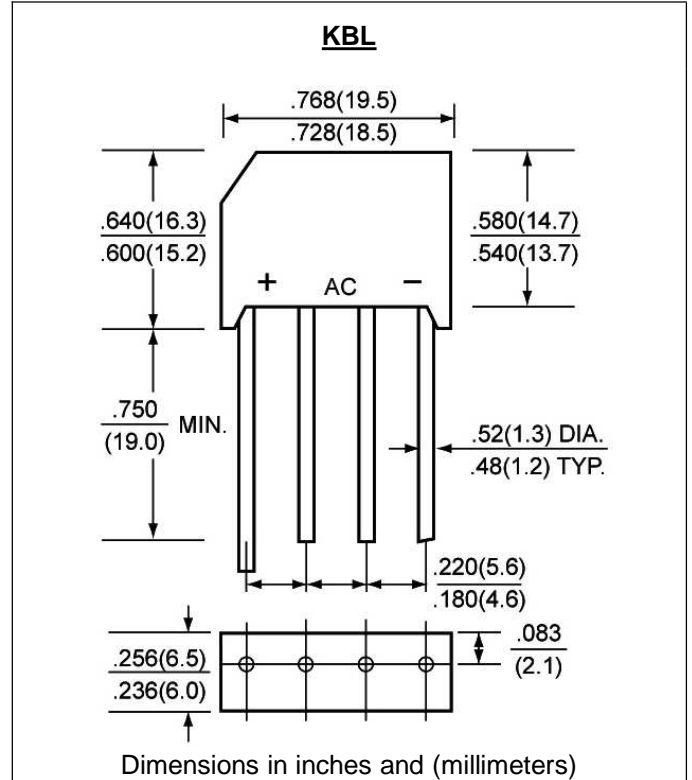


### FEATURE

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

### MECHANICAL DATA

Terminal: Plated leads solderable per  
MIL-STD 202E, method 208C  
Case: UL-94 Class V-0 recognized Flame  
Retardant Epoxy  
Polarity: Polarity symbol marked on body  
Mounting position: any

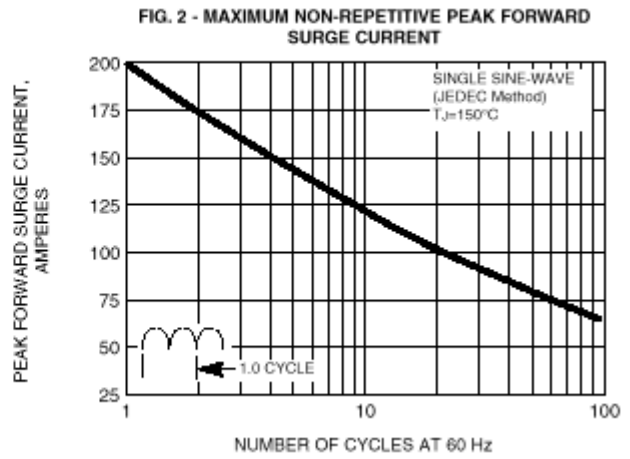
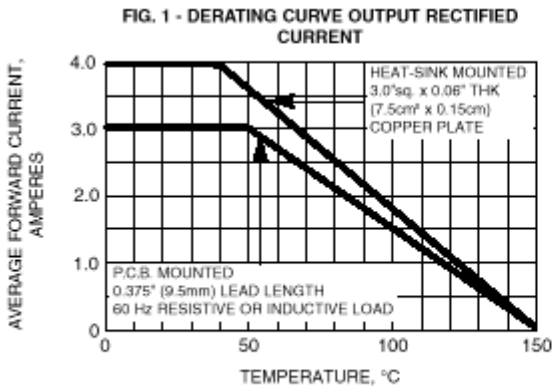


### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated,  
for capacitive load, derate current by 20%)

	SYMBOL	KBL 005	KBL 01	KBL 02	KBL 04	KBL 06	KBL 08	KBL 10	units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V <sub>dc</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta =40°C	I <sub>f(av)</sub>	4.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	200.0							A
Maximum Instantaneous Forward Voltage at forward current 4.0A DC	V <sub>f</sub>	1.1							V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	I <sub>r</sub>	10.0 1.0							μA mA
Operating Temperature Range	T <sub>j</sub>	-55 to +125							°C
Storage and Operation Junction Temperature	T <sub>stg</sub>	-55 to +150							°C

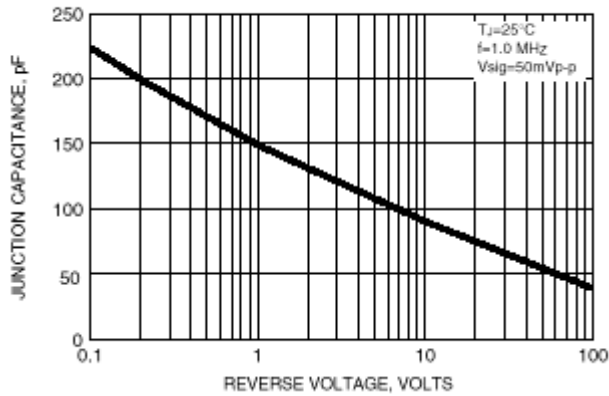
# RATINGS AND CHARACTERISTIC CURVES KBL005 THRU KBL10



**FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG**



**FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG**



**FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG**

