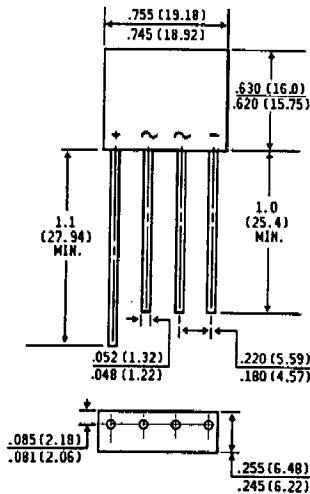
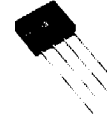


KBL005 THRU KBL10

SINGLE - PHASE SILICON BRIDGE RECTIFIERS
VOLTAGE - 50 to 1000 Volts CURRENT - 4.0 Amperes

FEATURES

- ◆ This series is UL recognized under component index, file number E54214
- ◆ Plastic material used carries Underwriters Laboratory Flammability Classification 94V-O
- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ Surge overload rating of 200 Amperes peak
- ◆ High temperature soldering guaranteed: 250° C / 10 seconds / .375", (9.5mm) lead length / 5lbs., (2.3 kg) tension



Dimensions in inches
and
(millimeters)

MECHANICAL DATA

Case: Reliable low cost construction utilizing molded plastic technique

Terminals: Plated Lead solderable per MIL-STD-202, Method 208

Mounting Position: Any

Weight: 0.2 ounce, 5.6 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60 Hz.

For capacitive load, derate current by 20%.

	SYMBOLS	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	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at T _A = 50°C	I(AV)	4.0							Amps
Peak Forward Surge Current Single sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	200							Amps
Maximum Instantaneous Forward Voltage drop per element at 4.0A	V _F	1.1							Volts
Maximum DC Current at Rated DC Blocking Voltage T _A = 25°C T _C = 150°C	I _R	10.0 1.0							µA mA
Typical Thermal Resistance (Note 1)	R _{θJA}	10.0							°C/W
Operating and Storage Temperature Range	T _{J,TSTG}	-50 to +150							°C

Note 1: Thermal Resistance from Junction to Ambient with units mounted on a 3" x .11" THK (7.5cm. x 0.3cm.) Cu. Plate.

