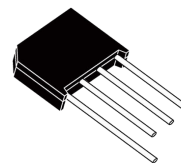


VOLTAGE RANGE: 50 - 1000V
CURRENT: 4.0 A

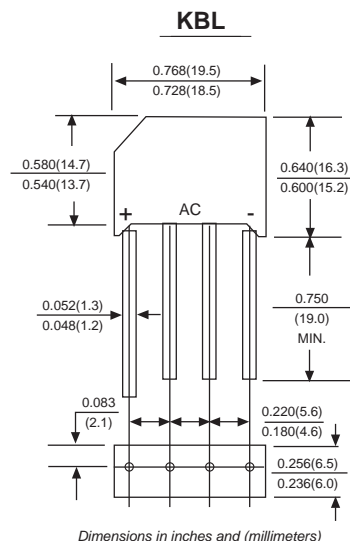


Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Ideal for printed circuit boards
Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
- 260°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

- Case: Molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbols marked on case
- Mounting Position: Any
- Weight: 0.22 ounce, 6.21 grams



Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBL 005	KBL 01	KBL 02	KBL 04	KBL 06	KBL 08	KBL 10	Unit	
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 output rectified current at T _c =50°C (Note 2) and T _A =50°C (Note 3)	I _(AV)					4.0				A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}					200				A
Rating for Fusing (t<8.3ms)	I ² t					166				A ² s
Maximum instantaneous forward voltage drop per bridge element at 4.0A	V _F					1.0				V
Maximum DC reverse current at rated DC blocking voltage	I _R					10				uA
						1.0				mA
Typical Junction Capacitance (Note 1)	C _J					105				pF
Typical Thermal Resistance (Note 2)	R _{qJA}					20				°C/W
Operating junction temperature range	T _J					-65 to +150			°C	
storage temperature range	T _{STG}					-55 to +150			°C	

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
2. Unit mounted on 3.0" x 3.0" x 0.11" thick (7.5x7.5x0.3cm) Al. plate.
3. P.C. Board mounted with 0.5" x 0.5" (12x12mm) copper pads, 0.375" (9.5mm) lead length.



RATINGS AND CHARACTERISTIC CURVES KBL005 THRU KBL10

