



# KBL02 THRU KBL10

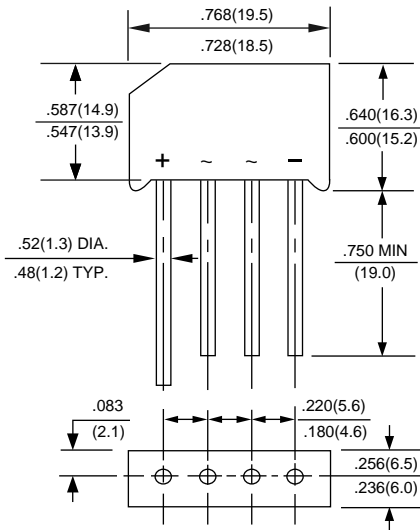
## GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 200 to 1000 Volts

Forward Current - 4.0 Amperes



**KBL**



\*Dimensions in inches and (millimeters)

### FEATURES

- \* Glass passivated chip junctions
- \* High Surge Current Capability
- \* High foward Surge Current capability
- \* Ideal for Printed Circuit Boards
- \* High Case dielectric strength of 1500VRMS
- \* Plastic Material has Underwriters Laboratory Flammability Classification 94V-0
- \* High Temperature soldering guaranteed:  
260°C/10seconds,0.375" (9.5mm) lead length,5lbs. (2.3Kg)tension

### MECHANICAL DATA

**Case :** Molded Plastic

**Terminals :** Tin plated , solderable per MIL-STD-750, Method 2026

**Polarity :** As marked on Body

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	KBL02	KBL04	KBL06	KBL08	KBL10	UNITS
Maximum repetitive peak reverse voltage	VRRM	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	200	400	600	800	1000	Volts
Maximum average forward output current @TA=50°C	I(AV)	4.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	125					Amps
Maximum instantaneous forward voltage at 2.0 A	VF	1.1					Volts
Maximum DC reverse current @TA=25°C at rated DC blocking voltage @TA=125°C	IR	5.0 1000					uA
Typical thermal resistance (NOTE 1) (NOTE 2)	RθJA RθJL	19.0 2.4					°C / W
Operating and Storage temperature range	TJ,TSTG	-55 to +150					°C

NOTES : (1) Thermal resistance from junction to ambient with units on 0.3 x 3.0 x 0.11" thick (7.5 x 7.5 x 0.3 cm) Al. plate  
(2) Thermal resistance from junction to lead with units mounted on P.C.B. at 0.375" (9.5mm) lead length and 0.5 x 0.5" (12 x 12mm) copper pads.

# RATINGS AND CHARACTERISTIC CURVES KBL02 THRU KBL10

FIG.1 - FORWARD CURRENT DERATING CURVE

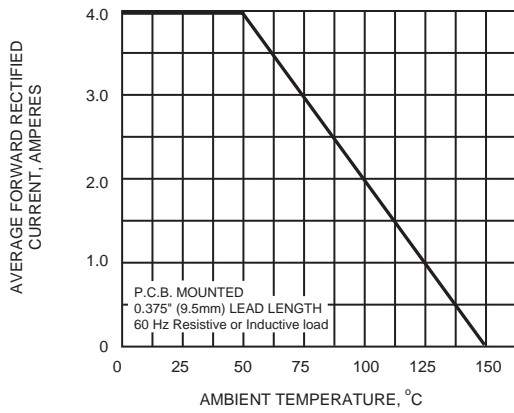


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

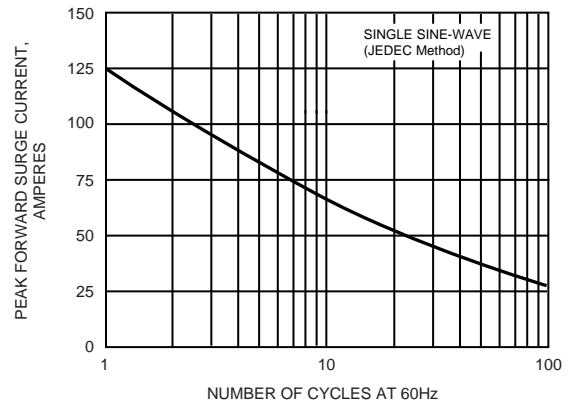


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

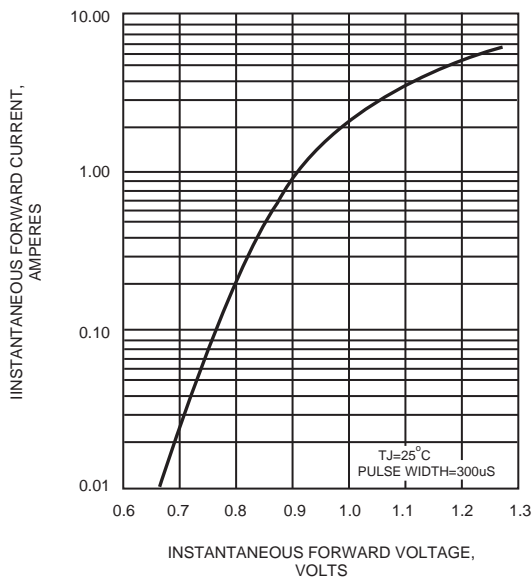


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

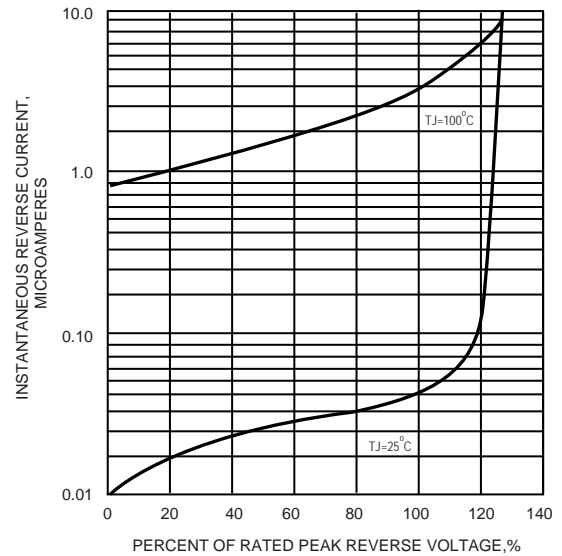


FIG.5 - TYPICAL JUNCTION CAPACITANCE

