

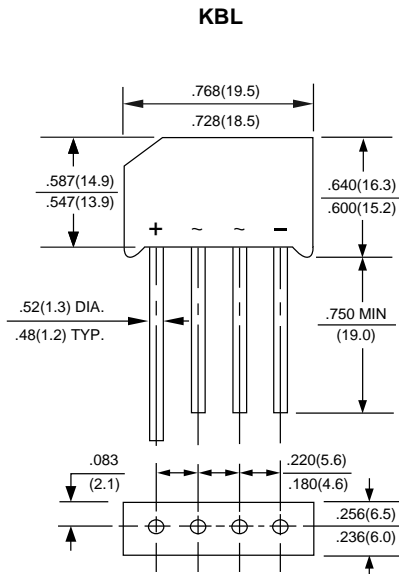


# KBL02H THRU KBL10H

## GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 200 to 1000 Volts

Forward Current - 4.0 Amperes



\*Dimensions in inches and (millimeters)



### FEATURES

- \* Halogen-free type
- \* 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

<i>Ratings at 25°C ambient temperature unless otherwise specified.</i>	SYMBOLS	KBL02H	KBL04H	KBL06H	KBL08H	KBL10H	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	200	400	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	140	280	420	560	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	200	400	600	800	1000	Volts
Maximum average forward output current @T <sub>A</sub> =50°C	I (AV)	4.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	125					Amps
Maximum instantaneous forward voltage at 2.0 A	V <sub>F</sub>	1.1					Volts
Maximum DC reverse current @T <sub>A</sub> =25°C at rated DC blocking voltage @T <sub>A</sub> =125°C	I <sub>R</sub>	5.0 1000					uA
Typical thermal resistance (NOTE 1) (NOTE 2)	R <sub>θJA</sub> R <sub>θJL</sub>	19.0 2.4					°C / W
Operating and Storage temperature range	T <sub>J</sub> ,T <sub>STG</sub>	-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 KBL02H THRU KBL10H

FIG.1 - FORWARD CURRENT DERATING CURVE

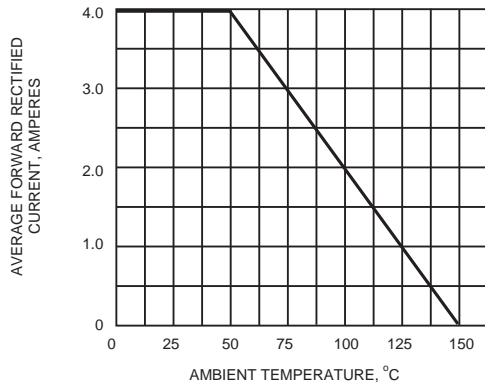


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

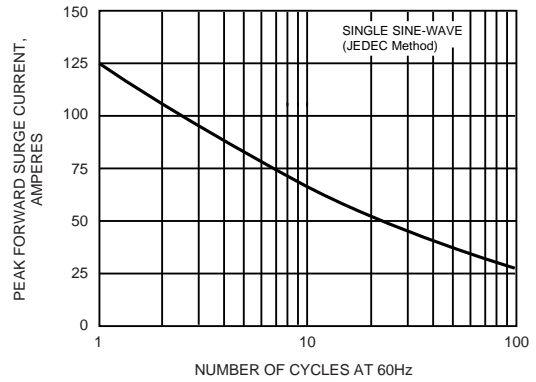


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

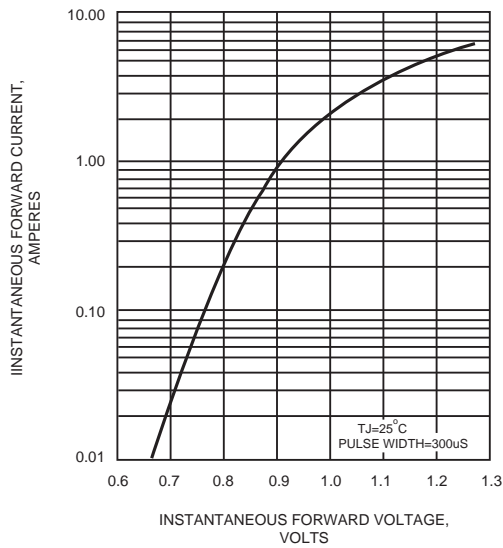


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

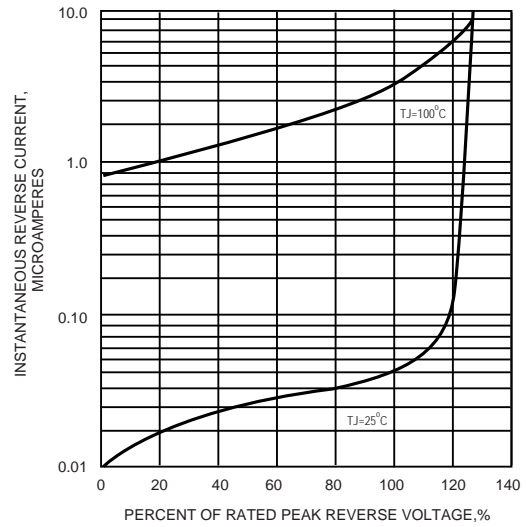


FIG.5 - TYPICAL JUNCTION CAPACITANCE

