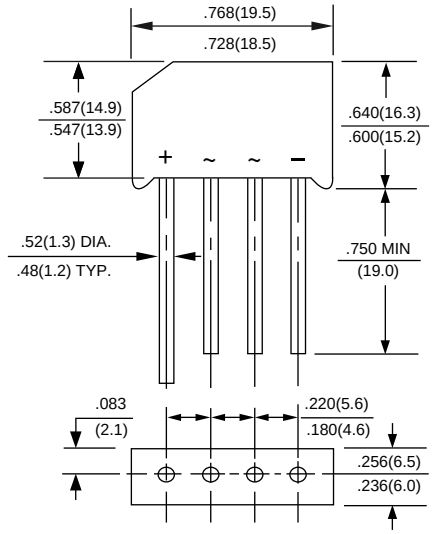
KBL02H THRU KBL10H

GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 200 to 1000 Volts *Forward Current - 4.0 Amperes*

KBL



*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 1500V$_{RMS}$
* 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*	***KBL02H***	***KBL04H***	***KBL06H***	***KBL08H***	***KBL10H***	*UNITS*
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	Volts
Maximum average forward output current @T_A=50°C	I (AV)	4.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	125					Amps
Maximum instantaneous forward voltage at 2.0 A	V_F	1.1					Volts
Maximum DC reverse current @T_A=25°C at rated DC blocking voltage @T_A=125°C	I_R	5.0 1000					uA
Typical thermal resistance (NOTE 1) (NOTE 2)	$R_{\theta JA}$ $R_{\theta JL}$	19.0 2.4					°C / W
Operating and Storage temperature range	T_J,T_{STG}	-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

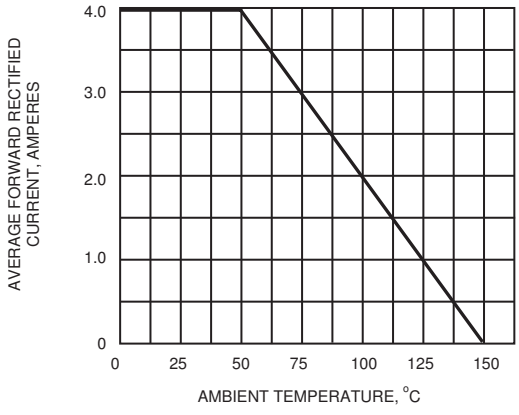


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

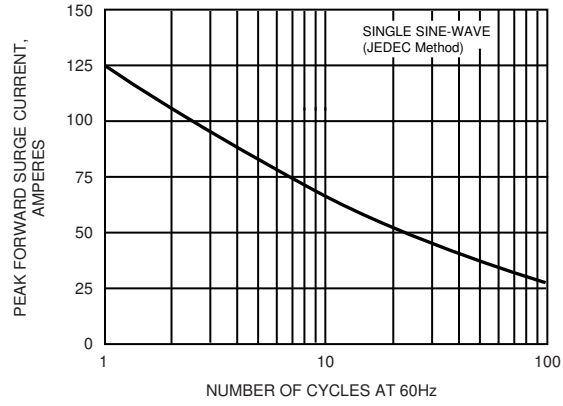


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

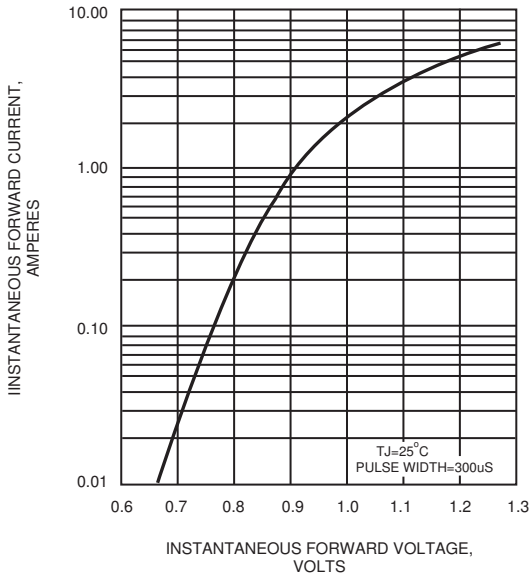


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

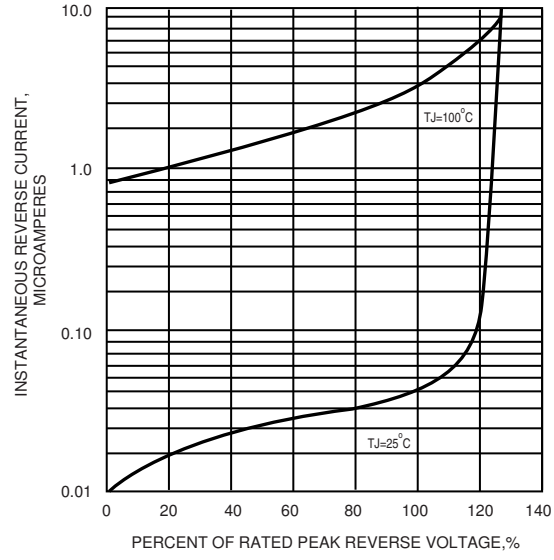


FIG.5 - TYPICAL JUNCTION CAPACITANCE