

KBL400G - KBL410G

PRV : 50 - 1000 Volts

Io : 4.0 Amperes

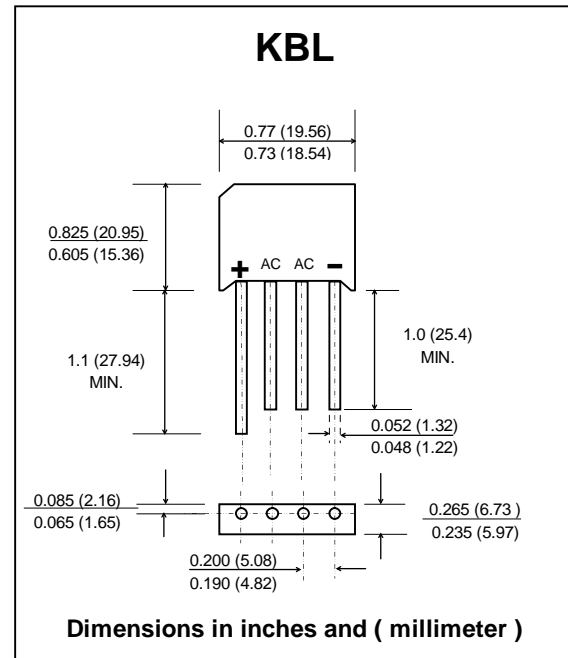
FEATURES :

- * Glass passivated chip
- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Ideal for printed circuit board
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Terminals : Plated lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Polarity symbols marked on case
- * Mounting position : Any
- * Weight : 5.15 grams

GLASS PASSIVATED BRIDGE RECTIFIERS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
 Single phase, half wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

RATING	SYMBOL	KBL 400G	KBL 401G	KBL 402G	KBL 404G	KBL 406G	KBL 408G	KBL 410G	UNIT	
Maximum Recurrent 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 Current $T_a=50^\circ\text{C}$	$I_{F(AV)}$	4.0								A
Peak Forward Surge Current Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	150								A
Maximum Forward Voltage per Diode at $I_F = 4\text{ A}$	V_F	1.1								V
Maximum DC Reverse Current $T_a = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_a = 100^\circ\text{C}$	I_R	10								μA
	$I_{R(H)}$	1.0								mA
Typical Thermal Resistance (Note 1)	$R\theta_{JA}$	19								$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	- 50 to + 150								$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 50 to + 150								$^\circ\text{C}$

Note :

1) Thermal resistance from Junction to Ambient with units mounted on a 3" X 3" X 0.11" THK (7.5cm X 7.5cm X 0.3cm) Cu. plate.

RATING AND CHARACTERISTIC CURVES (KBL400G - KBL410G)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

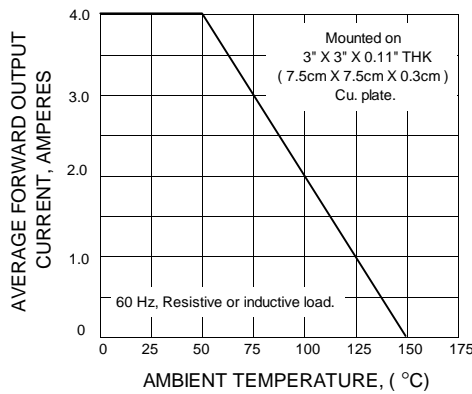


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

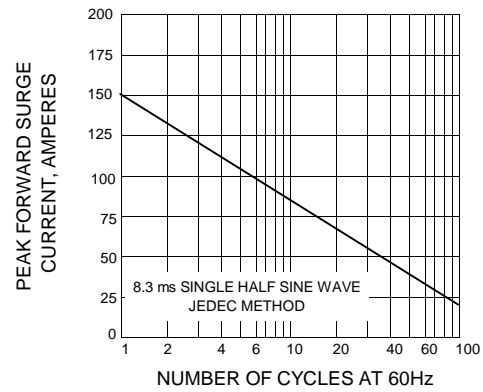


FIG.3 - TYPICAL FORWARD CHARACTERISTICS PER DIODE

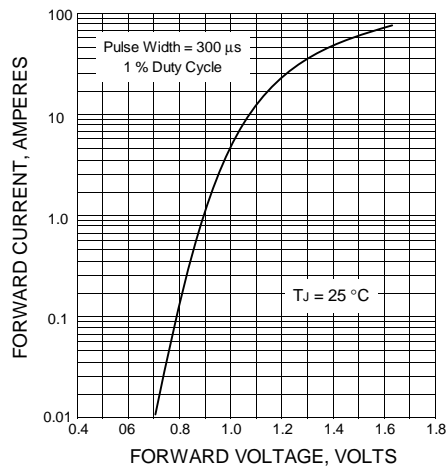


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

