



ELECTRONICS INDUSTRY (USA) CO., LTD.



Certificate Number: Q10561



Certificate Number: E17276

103 MOO 4, LATKRABANG EXPORT PROCESSING ZONE, LATKRABANG, BANGKOK 10520, THAILAND
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KBL400 - KBL410

PRV : 50 - 1000 Volts

Io : 4.0 Amperes

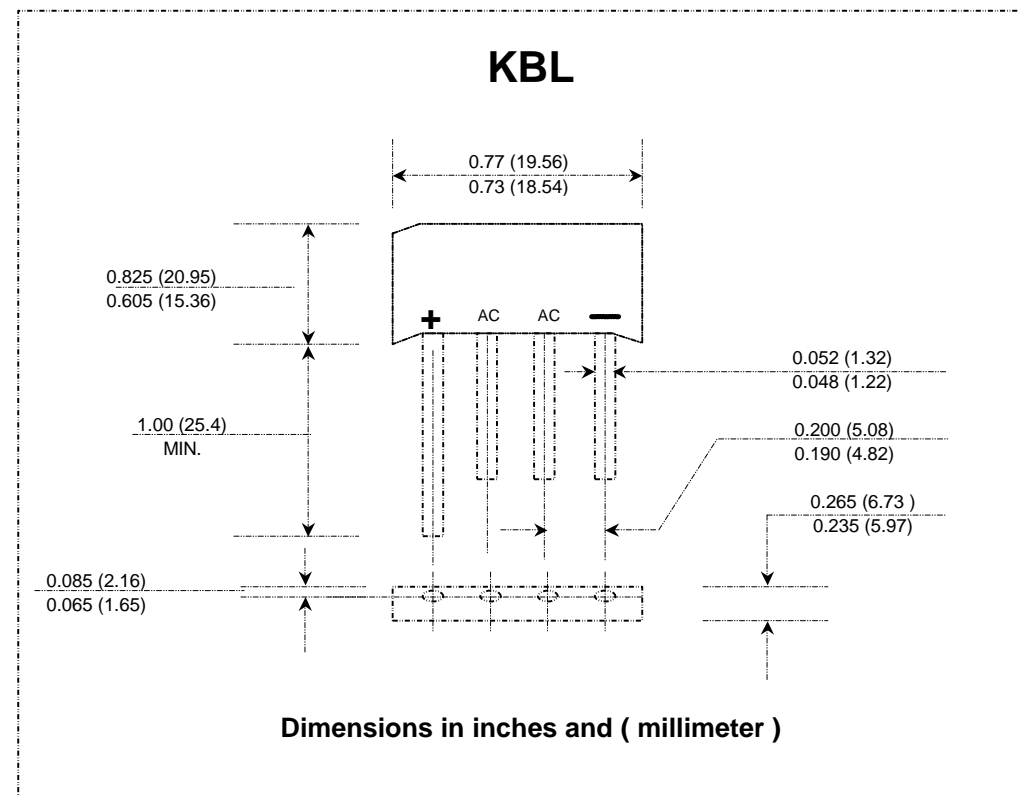
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Ideal for printed circuit board

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

SILICON 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 400	KBL 401	KBL 402	KBL 404	KBL 406	KBL 408	KBL 410	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Current Tc=50°C	IF(AV)	4.0							Amps.
Peak Forward Surge Current Single half sine wave Superimposed on rated load (JEDEC Method)	IFSM	200							Amps.
Rating for fusing (t < 8.3 ms.)	I ² t	166							A ² S
Maximum Forward Voltage per Diode at IF = 4 Amps.	VF	1.1							Volts
Maximum DC Reverse Current Ta = 25 °C	IR	10							µA
at Rated DC Blocking Voltage Ta = 100 °C	IR(H)	1.0							mA
Typical Thermal Resistance (Note 1)	RθJA	10							°C/W
Operating Junction Temperature Range	TJ	- 50 to + 150							°C
Storage Temperature Range	TSTG	- 50 to + 150							°C

Notes :

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.

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RATING AND CHARACTERISTIC CURVES (KBL400 - KBL410)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

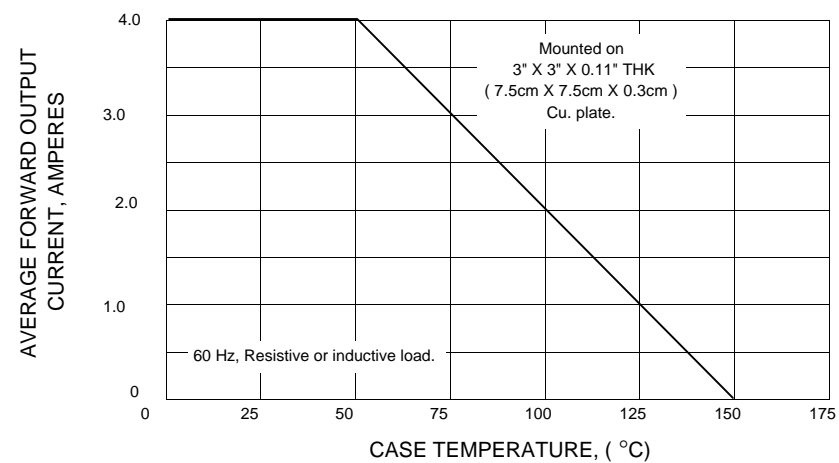


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

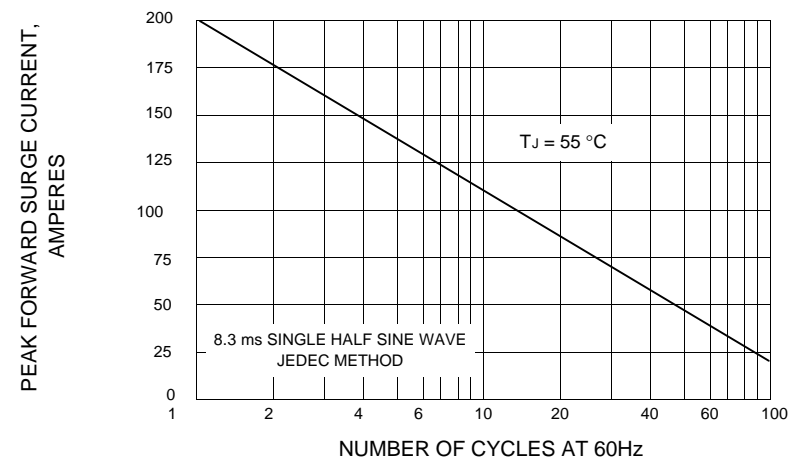


FIG.3 - TYPICAL FORWARD CHARACTERISTICS PER DIODE

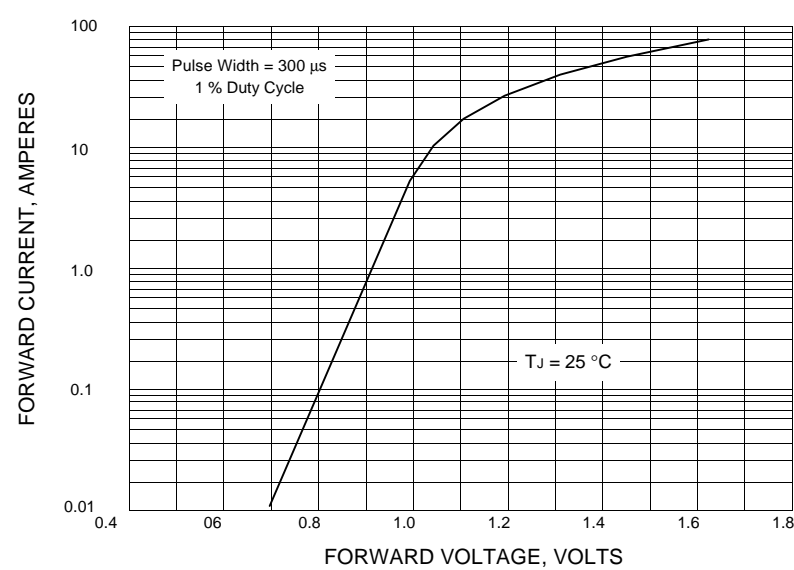


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

