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KBL4005 THRU KBL410

Single Phase 4.0 AMPS. Silicon Bridge Rectifiers

Voltage Range 50 to 1000 Volts Current 4.0 Amperes

KBL

FEATURES

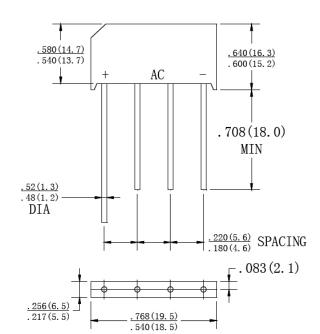
- ◆Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- ◆High temperature soldering guaranteed: 260°C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension
- ◆UL Recognized File number: E347214

MECHANICAL DATA

◆Case: Molded plastic

◆Lead: solder plated

◆Polarity: As marked



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

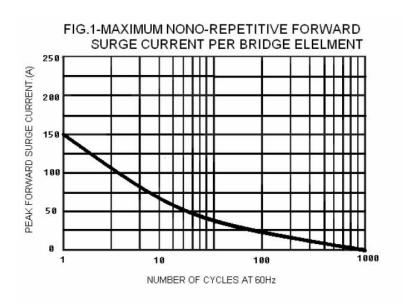
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

	0)/4/00/ 0	KBL	KBL	KBL	KBL	KBL	KBL	KBL	UNITS
	SYMBOLS	4005	401	402	404	406	408	410	
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta=50 $^{\circ}\!$	I(AV)	4.0							Α
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	150							А
Maximum Instantaneous Forward Voltage at 4.0A	VF	1.1						V	
Maximum DC Reverse Current @ T _A =25 °C rated DC blocking voltage per leg T _A =125 °C	lR	10 500							μA
Typical Thermal Resistance (Note)	Reja Rejl	19 2.4							°C/W
Operating Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							°C

Note: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B.with 0.47×0.47 " (12×12mm) Copper Pads.

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RATING AND CHARACTERISTIC CURVES KBL4005 THRU KBL410



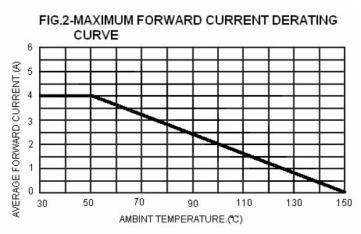


FIG.3-TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS PER BRIDGE ELEMENT

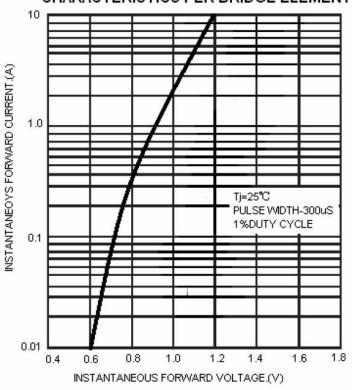
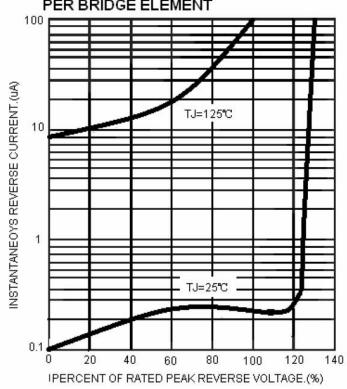


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Note: Specifications are subject to change without notice.