Suntan_® Su_®

KBL4005 THRU KBL410

Single Phase 4.0 AMPS. Silicon Bridge Rectifiers

Voltage Range 50 to 1000 Volts Current 4.0 Amperes

FEATURES

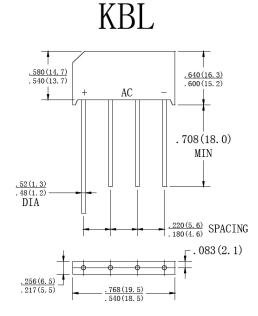
- ◆ Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- ♦ High temperature soldering guaranteed:

260°C / 10 seconds / 0.375" (9.5mm)

- lead length at 5 lbs., (2.3 kg) tension
- ◆UL Recognized File number: E347215

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%

Type Number		KBL 4005	KBL 401	KBL 402	KBL 404	KBL 406	KBL 408	KBL 410	UNITS
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°C	I(AV)	4.0						А	
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 @ TA=25°C rated DC blocking voltage per leg TA=125°C	Ir	10 500						μΑ	
Typical Thermal Resistance (Note)	Rəja Rəjl	19 2.4							°C/W
Operating Temperature Range	TJ	-55 to +150						°C	
Storage Temperature Range	Tstg	-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

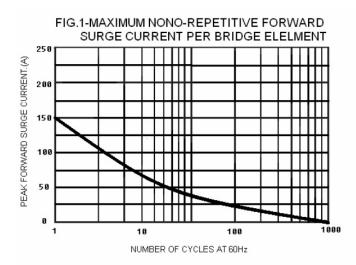
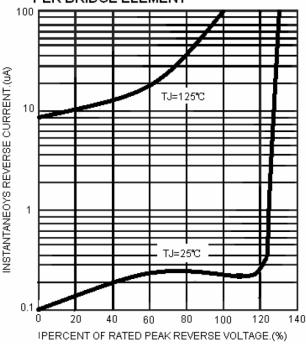


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE 6 AVERAGE FORWARD CURRENT.(A) 5 4 3 2 1 0 70 50 30 90 110 130 150 AMBINT TEMPERATURE.(°C)

CHARACTERISTICS PER BRIDGE ELEMENT 10 100 INSTANTANEOYS FORWARD CURRENT.(A) INSTANTANEOYS REVERSE CURRENT.(uA) 1.0 10 Tj=25℃ PULSE WIDTH-300uS 1%DUTY CYCLE 1 0.1 0.1 0.01 1.8 0 20 40 60 0.4 0.8 1.0 1.2 1.4 1.6 0.6 INSTANTANEOUS FORWARD VOLTAGE.(V)

FIG.3-TYPICAL INSTANTANEOUS FORWARD

FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Note: Specification are subject to change without notice. For more detail and update, please visit our website.