



KBL6005-KBL610

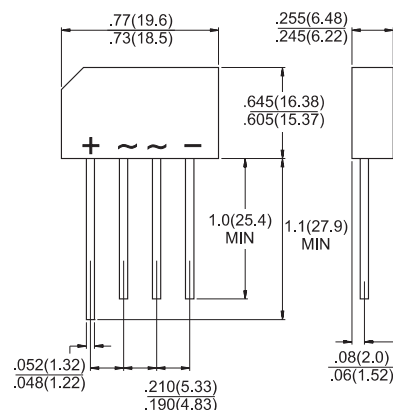
Single Phase Silicon Bridge

VOLTAGE RANGE: 50 --- 1000V

CURRENT: 6.0A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High surge current capability
- Ideal for printed circuit boards



Dimensions in 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	SYMBOL	KBL6005	KBL601	KBL602	KBL604	KBL606	KBL608	KBL610	UNIT
Maximum Recurrent 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 TA=50°C	I(AV)	6.0							A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	240							A
Maximum Instantaneous Forward Voltage @ 6.0 A	VF	1.1							V
Maximum DC Reverse Current @TJ=25°C	IR	10.0							uA
At Rated DC Blocking Voltage @TJ=125°C		0.5							mA
Rating for fusing (t < 8.3ms)	I ² t	19							A ² S
Typical junction Capacitance (Note 1)	CJ	28							pF
Typical Thermal Resistance per leg	RθJA	19							°C/W
Typical Thermal Resistance (Note 2)	RθJL	2.4							
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to + 165							°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

(2) Thermal Resistance from junction to ambient mounted on P.C.B with 0.5 x 0.5" (13x13mm) copper pads.

Ratings AND Characteristic Curves

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FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

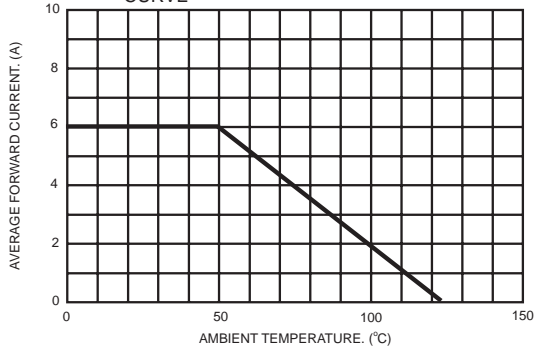


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

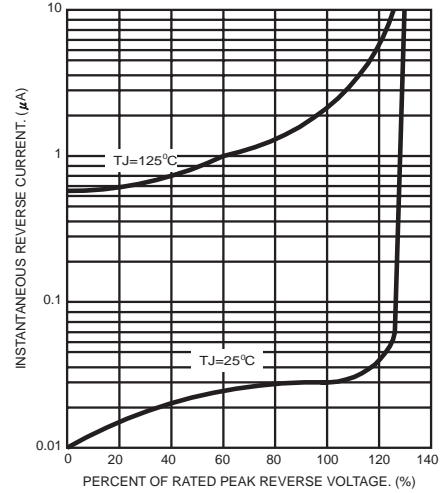


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

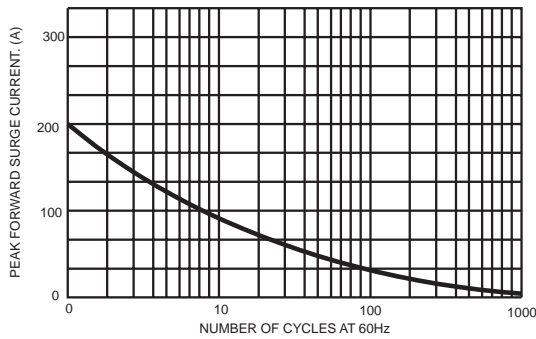


FIG.4- TYPICAL JUNCTION CAPACITANCE

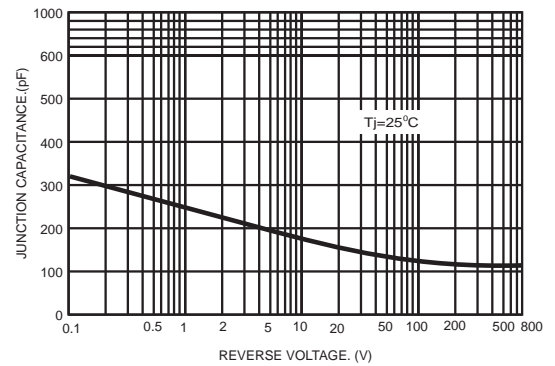
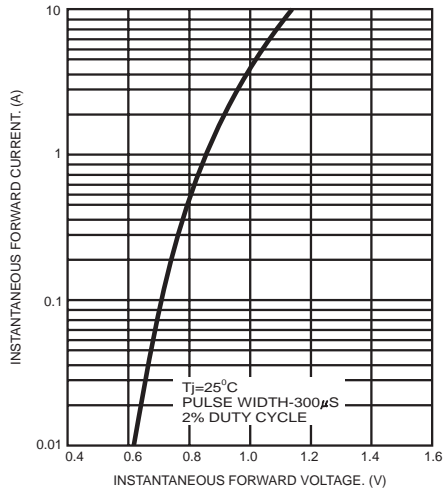


FIG.5- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT



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