



KBL6005G thru KBL610G

GLASS PASSIVATED BRIDGE RECTIFIERS

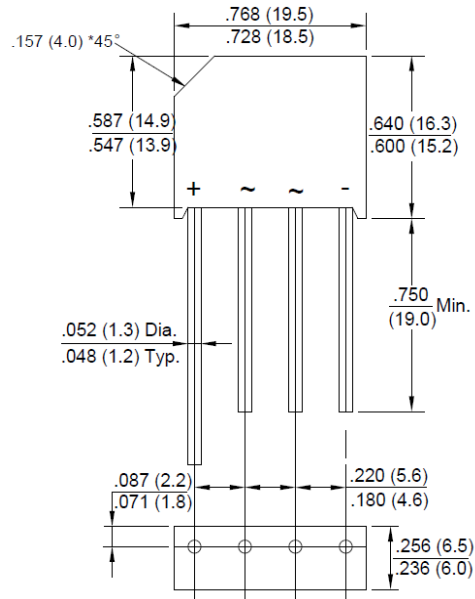
REVERSE VOLTAGE - 50 to 1000Volts
FORWARD CURRENT - 6.0Amperes

FEATURES

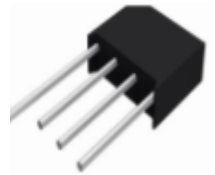
- Surge overload rating -150 Amperes peak
- Ideal for printed circuit board
- Plastic material has UL flammability classification 94V-0
- Mounting position :Any

Note: Products with logo  or  are made by HY Electronic (Cayman) Limited.

KBL



RoHS
COMPLIANT



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%

CHARACTERISTICS	SYMBOL	KBL	KBL	KBL	KBL	KBL	KBL	KBL	UNIT
		6005G	601G	602G	604G	606G	608G	610G	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input 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 Output Current at 50°C TA (Note1)	I(AV)	6.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	IFSM	125							A
I ² t Rating for Fusing (t<8.3mS)	I ² t	64.8							A ² s
Maximum Forward Voltage Drop Per Element at 3.0A Peak	VF	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	10.0							µA
Maximum Reverse Current at Rated DC Blocking Voltage and 150°C TA	IR	1.0							mA
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	TSTG	-55 to +150							°C

NOTES : 1. Mounting conditions ,0.5" lead length maximum.

KBL6*G-B-(N)00-00

Rev.2, 31-Aug-2020



FIG.1-MAXIMUM FORWARD SURGE CURRENT

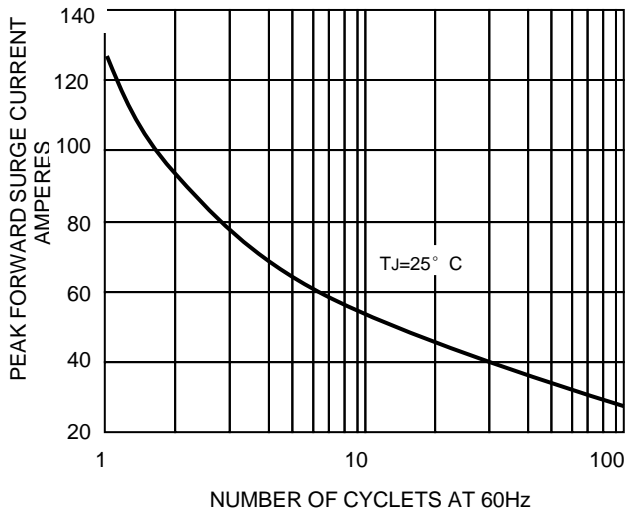


FIG.1-DERATING CURVE
 OUTPUT RECTIFIED CURRENT

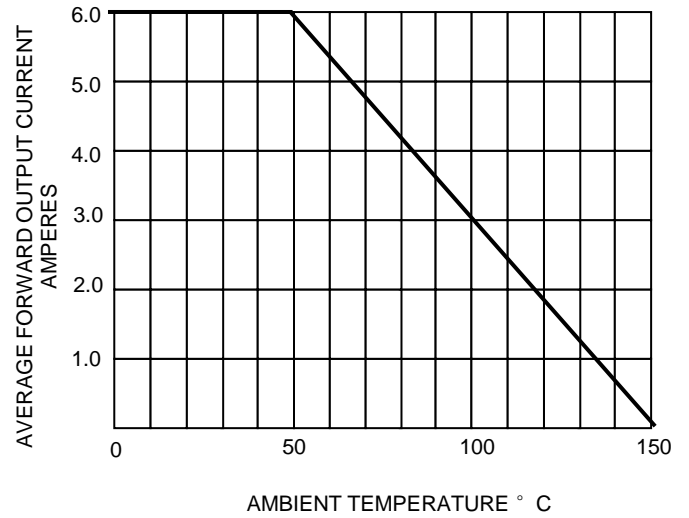


FIG.4-TYPICAL FORWARD CHARACTERISTICS

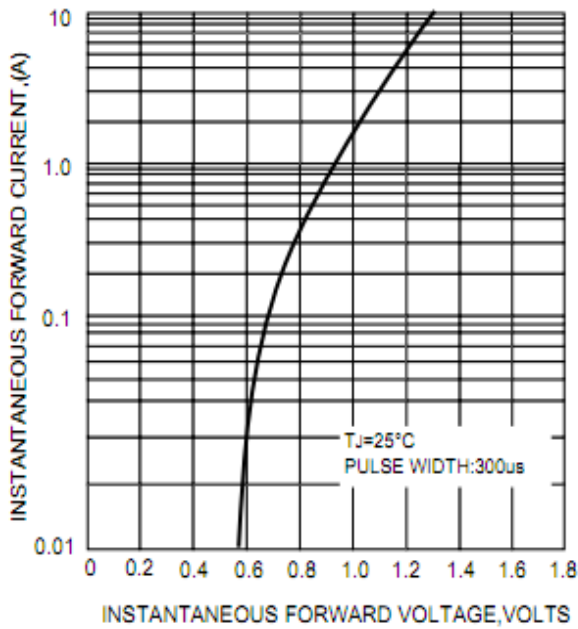
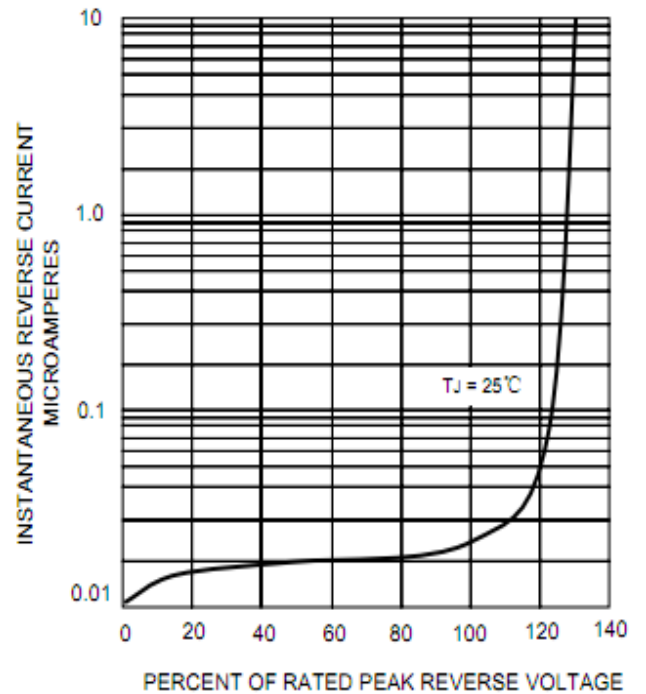


FIG.4- TYPICAL REVERSE CHARACTERISTICS



The curve graph is for reference only.



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