Elektronische Bauelemente

KBL6005G~KBL610G

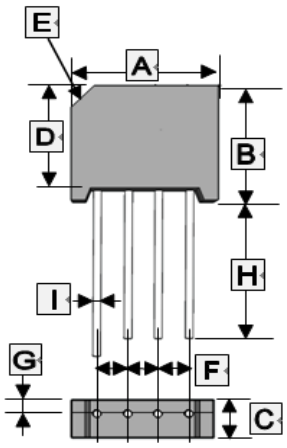
Voltage 50V ~ 1000V,
6.0 Amp Glass Passivated Bridge Rectifiers

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

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

KBL



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	18.5	19.5	F	4.6	5.6
B	15.2	16.3	G	1.8	2.2
C	6.0	6.5	H	19.0	-
D	13.9	14.9	I	1.2 TYP.	
E	(4.0) x 45°				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Part Number							Unit
			KBL 6005G	KBL 601G	KBL 602G	KBL 604G	KBL 606G	KBL 608G	KBL 610G	
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage		V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current at T_A=50℃ [1]		$I_{(AV)}$	6							A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I_{FSM}	150							A
Maximum Forward Voltage Drop Per Bridge Element @ 3.0A Peak		V_F	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage	T_A=25℃	I_R	10							μA
	T_A=150℃		1							mA
Operating & Storage Temperature Range		T_J,T_{STG}	-55~150							℃

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

RATINGS AND CHARACTERISTIC CURVES

FLG.1-MAXIMUM FORWARD SUNRGE CURRENT

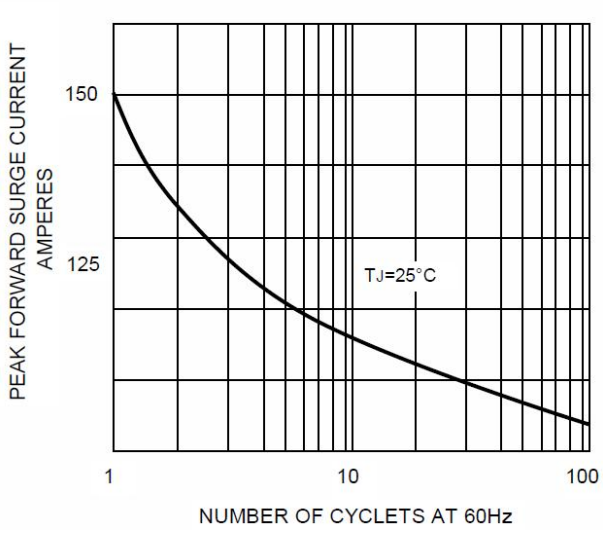


FIG.1-DERATING CURVE
OUTPUT RECTIFIED CURRENT

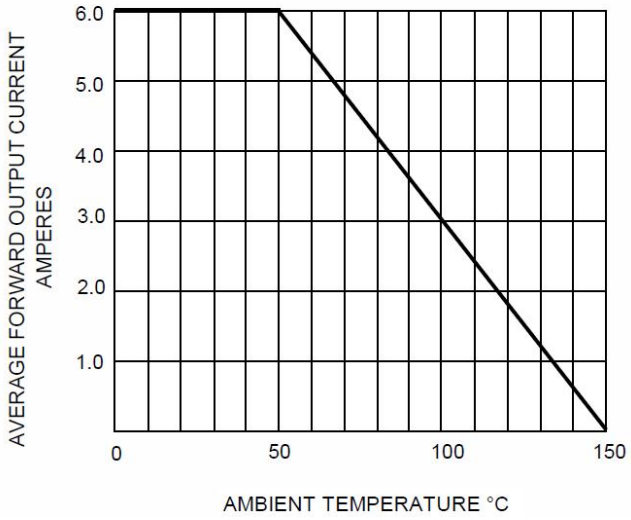


FIG.3-TYPICAL FORWARD CHARACTERISTICS

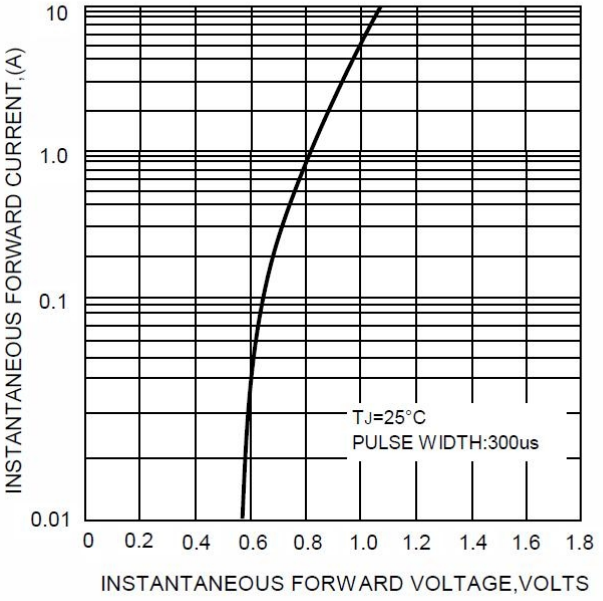


FIG.4– TYPICAL REVERSE
CHARACTERISTICS