Elektronische Bauelemente

KBU8005G ~ KBU810G

Voltage 50V ~ 1000V

8.0Amp Glass Passivited Bridge Rectifiers

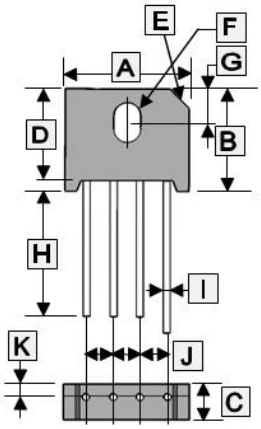
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURES

- Surge overload rating -175 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has Underwriters Laboratory
- Mounting postition:Any
- Mounting torgue:5 In.lb.Max

KBU



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	22.7	23.7	G	7.5 REF	
B	18.8	19.8	H	25.4	-
C	6.5	7.0	I	1.2 Ø TYP.	
D	16.8	17.8	J	4.6	5.6
E	4.0 x 45°		K	1.8	2.2
F	3.8 Ø x5.7L				

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
			KBU 8005G	KBU 801G	KBU 802G	KBU 804G	KBU 806G	KBU 808G	KBU 810G	
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 Current @T_C=100°C		$I_{(AV)}$	8							A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)		I_{FSM}	175							A
Maximum Forward Voltage @ 4A		V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_J=25℃	I_R	10							μA
	T_J=100℃		100							
Typical Junction Capacitance Per Element[1]		C_J	250							pF
Operating and Storage temperature range		T_J,T_{STG}	-55~150							°C

Notes：

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

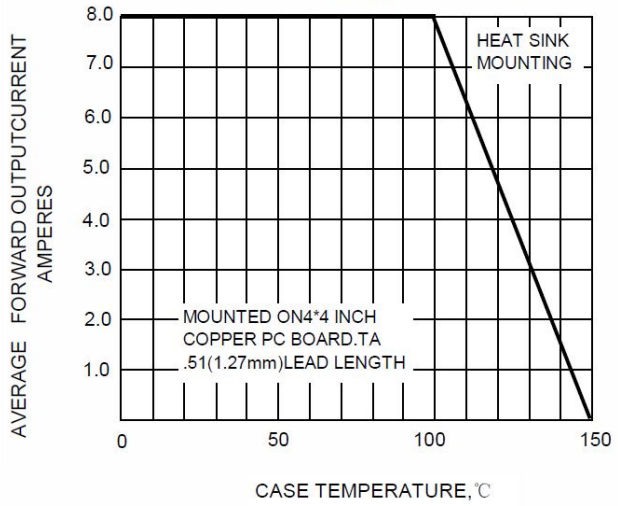

FIG.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

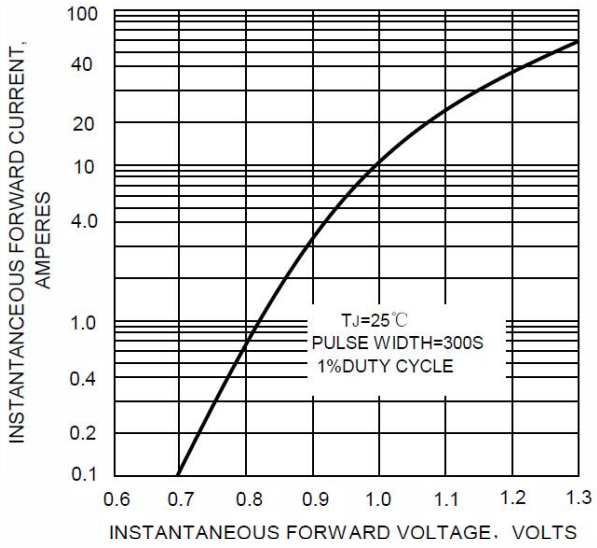

FIG.3-MAXIMUM NON-RETETITIVE PEAK FORWARD SURGE CURRENT

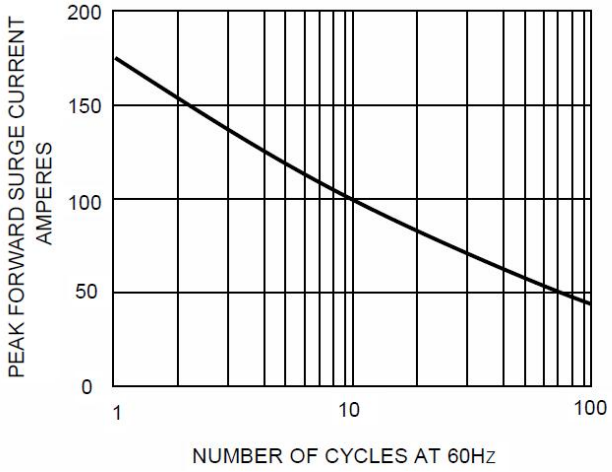

FIG.4-TYPICAL REVERSE CHARACTERISTICS

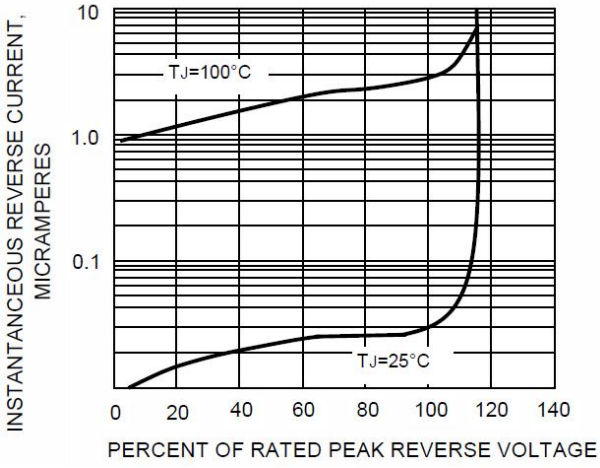

FIG.5-TYPICAL JUNCTION CAPACITANCE PER ELEMENT