LITE-ON SEMICONDUCTOR

KBJ1004G thru KBJ1010G

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE **- 400** to **1000** Volts
FORWARD CURRENT **- 10** Amperes

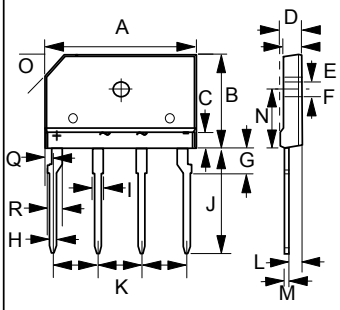
FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- UL recognized file # E95060

MECHANICAL DATA

- Polarity : Symbols molded on body
- Weight : 0.16 ounces, 4.6 grams
- Mounting position : Any

KBJ



KBJ		
DIM.	MIN.	MAX.
A	24.80	25.20
B	14.70	15.30
C	3.90	4.10
D	4.40	4.80
E	3.40	3.80
F	3.10 ⌀	3.40 ⌀
G	3.30	3.70
H	0.90	1.10
I	1.50	1.90
J	17.2	17.80
K	7.30	7.70
L	2.50	2.90
M	0.60	0.80
N	9.30	9.70
O	3.0 x 45°	
Q	1.05	1.45
R	1.70	2.10
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	KBJ 1004G	KBJ 1006G	KBJ 1008G	KBJ 1010G	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @T_C =110°C (without heatsink)	$I_{(AV)}$	10 3.0				A
Peak Forward Surge Current 8.3ms single half sine-wave Non-repetitive, @T_J =25 ℃	I_{FSM}	170				A
Maximum forward Voltage at 5.0A DC	V_F	1.1				V
Maximum DC Reverse Current @T_J =25 ℃ at Rated DC Blocking Voltage @T_J =125 ℃	I_R	5.0 500				uA
I^2t Rating for fusing (t < 8.3ms)	I^2t	120				A^2S
Typical Junction Capacitance per element (Note 1)	C_J	45				pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	2.0				℃/ W
Operating Temperature Range	T_J	-55 to +150				℃
Storage Temperature Range	T_{STG}	-55 to +150				℃

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2.Unit Mounted on 150mm x 150mm x 1.6mm Cu Plate Heatsink.

REV. 4, Sep-2012, For Delta

RATING AND CHARACTERISTIC CURVES
KBJ1004G thru KBJ1010G

FIG. 1 - FORWARD CURRENT DERATING CURVE

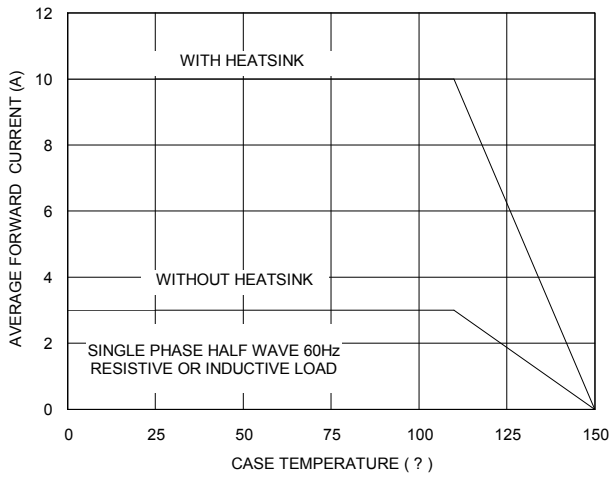


FIG. 2 - MAXMUN NON-REPETITIVE SURGE CURRENT

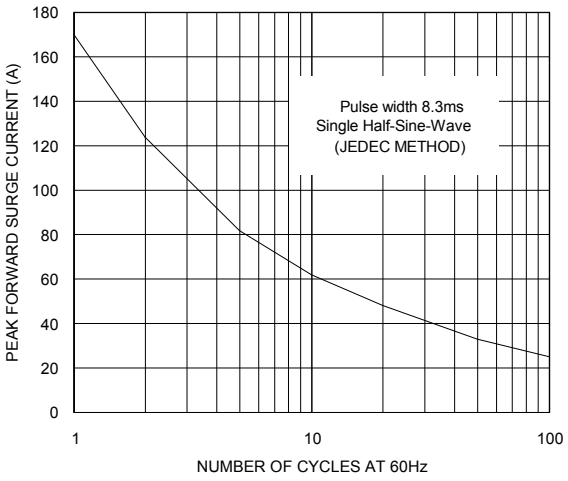


FIG.3 - TYPICAL JUNCTION CAPACITANCE

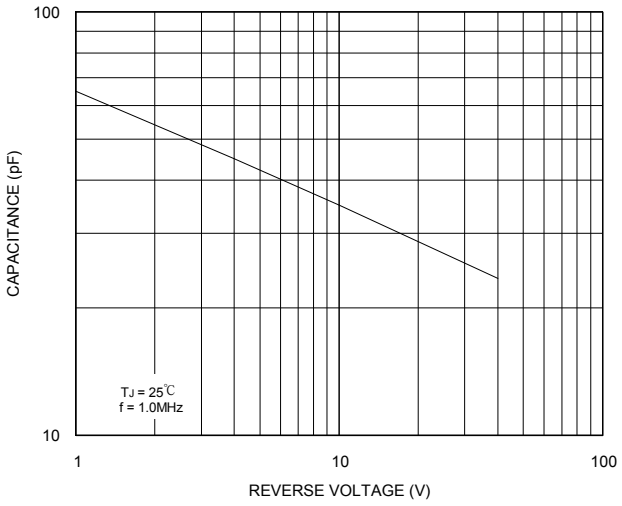


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

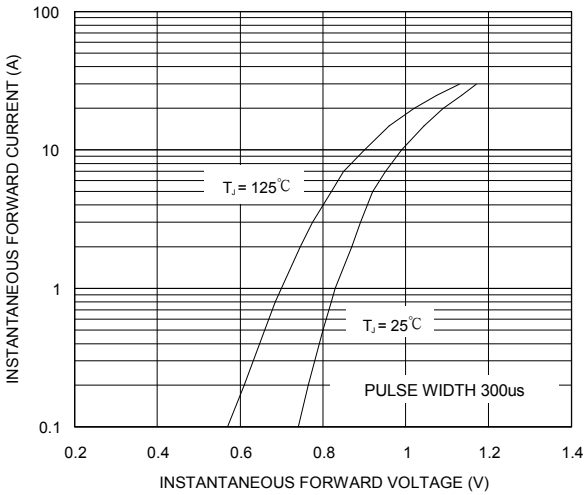
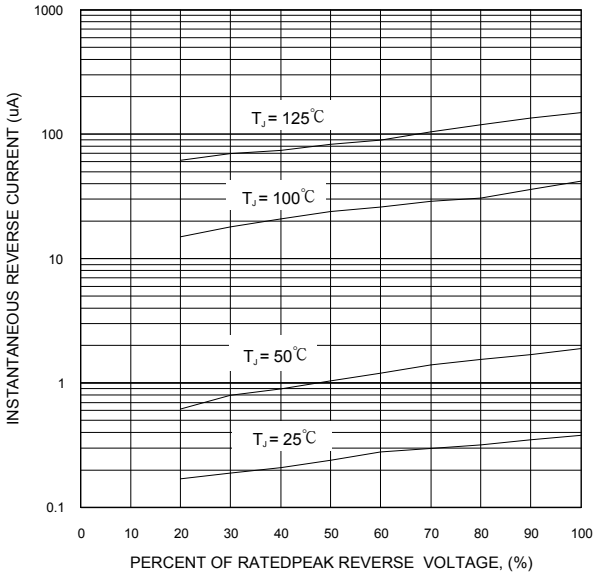


Fig.5 - TYPICAL REVERSE CHARACTERISTICS



Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.