

GLASS PASSIVATED BRIDGE RECTIFIERS

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

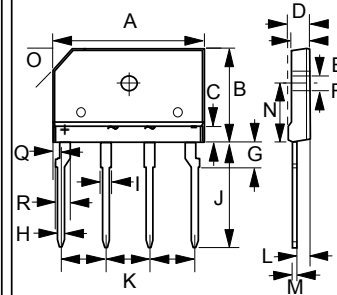
FEATURES

- 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°C 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 °C	I _{FSM}	170				A
Maximum forward Voltage at 5.0A DC	V _F	1.1				V
Maximum DC Reverse Current @T _J =25 °C at Rated DC Blocking Voltage @T _J =125 °C	I _R	5.0 500				uA
I ² t Rating for fusing (t < 8.3ms)	I ² t	120				A ² S
Typical Junction Capacitance per element (Note 1)	C _J	45				pF
Typical Thermal Resistance (Note 2)	R _{θ JC}	2.0				°C/W
Operating Temperature Range	T _J	-55 to +150				°C
Storage Temperature Range	T _{STG}	-55 to +150				°C

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.

FIG. 1 - FORWARD CURRENT DERATING CURVE

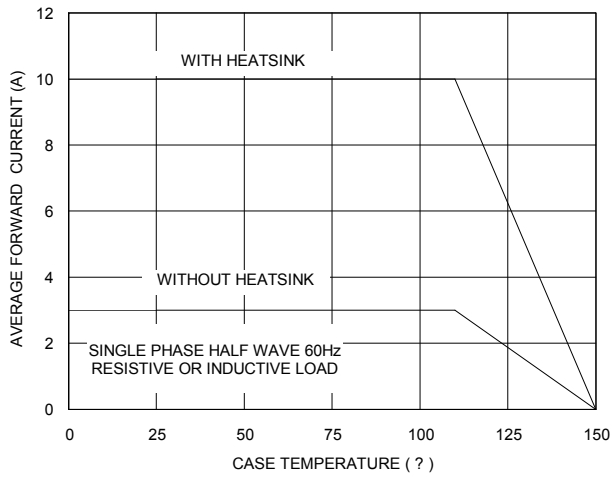


FIG. 2 - MAXMUN NON-REPETITIVE SURGE CURRENT

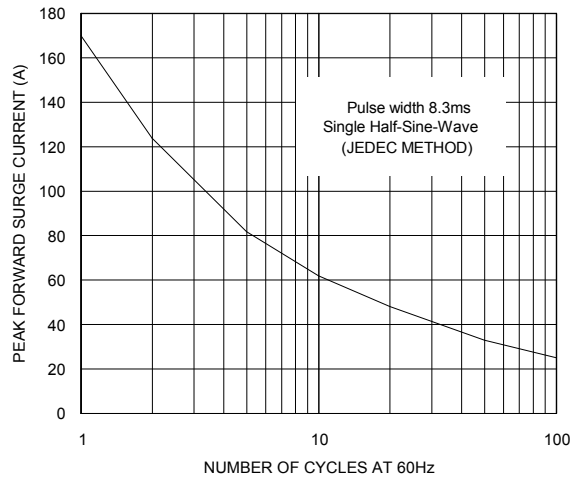


FIG.3 - TYPICAL JUNCTION CAPACITANCE

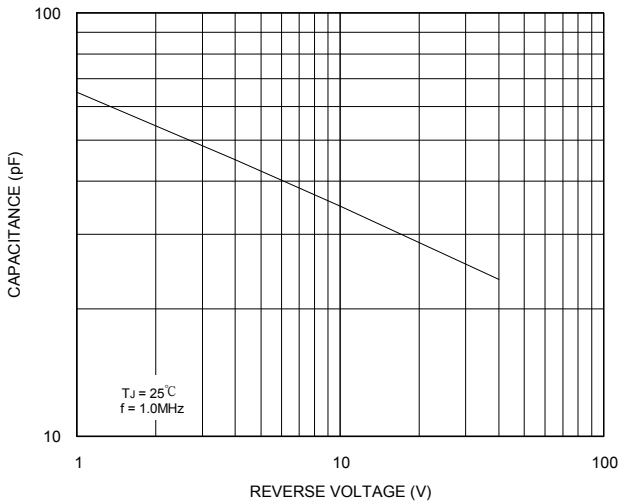


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

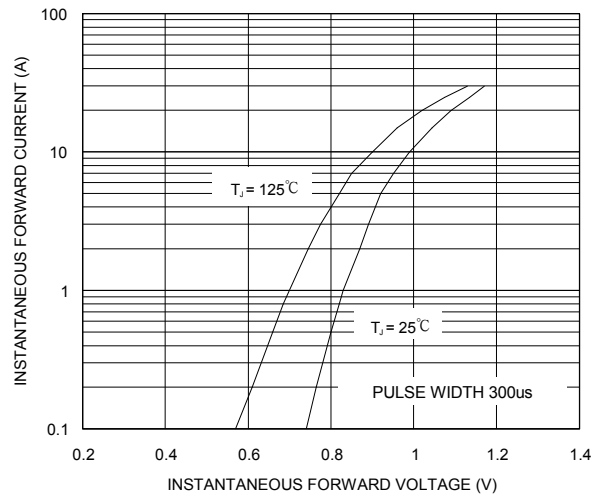
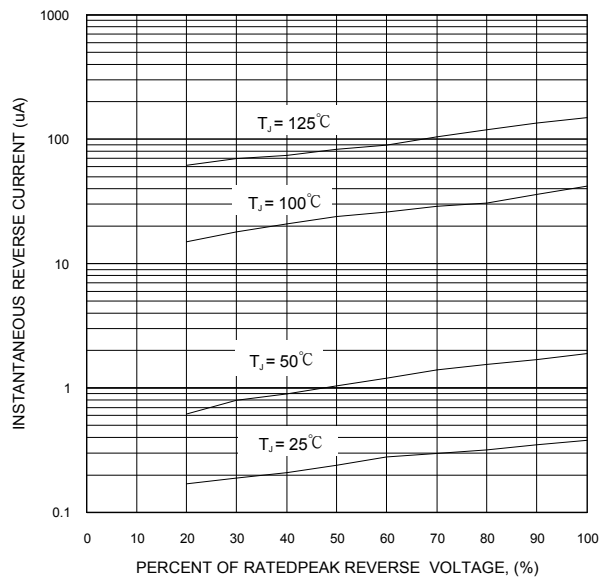


Fig.5 - TYPICAL REVERSE CHARACTERISTICS



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