

**GLASS PASSIVATED BRIDGE RECTIFIERS**

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

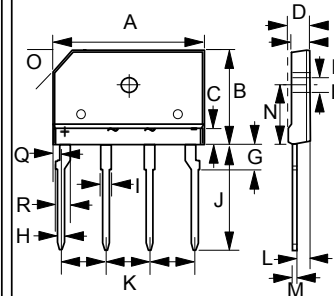
**FEATURES**

- 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 $\varnothing$	3.40 $\varnothing$
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 <sub>RRM</sub>	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @T <sub>C</sub> =110°C (without heatsink)	I <sub>(AV)</sub>	10 3.0				A
Peak Forward Surge Current 8.3ms single half sine-wave Non-repetitive, @T <sub>J</sub> =25 °C	I <sub>FSM</sub>	170				A
Maximum forward Voltage at 5.0A DC	V <sub>F</sub>	1.1				V
Maximum DC Reverse Current @T <sub>J</sub> =25 °C at Rated DC Blocking Voltage @T <sub>J</sub> =125 °C	I <sub>R</sub>	5.0 500				uA
I <sup>2</sup> t Rating for fusing (t < 8.3ms)	I <sup>2</sup> t	120				A <sup>2</sup> S
Typical Junction Capacitance per element (Note 1)	C <sub>J</sub>	45				pF
Typical Thermal Resistance (Note 2)	R <sub>θ JC</sub>	2.0				°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150				°C
Storage Temperature Range	T <sub>STG</sub>	-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.

REV. 2, Sep-2010, KBDF06

FIG. 1 - FORWARD CURRENT DERATING CURVE

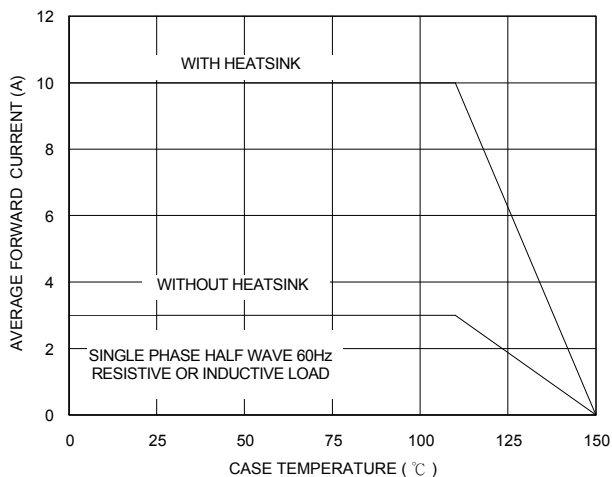


FIG. 2 - MAXMUN NON-REPETITIVE SURGE CURRENT

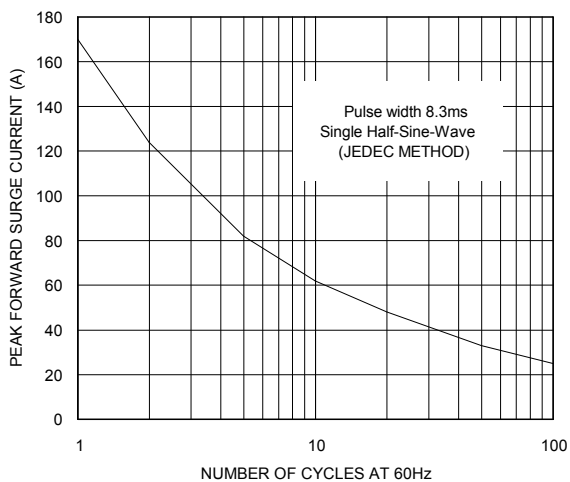


FIG.3 - TYPICAL JUNCTION CAPACITANCE

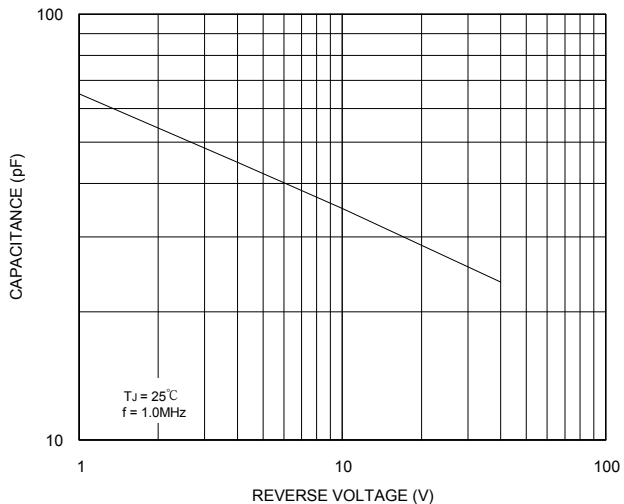


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

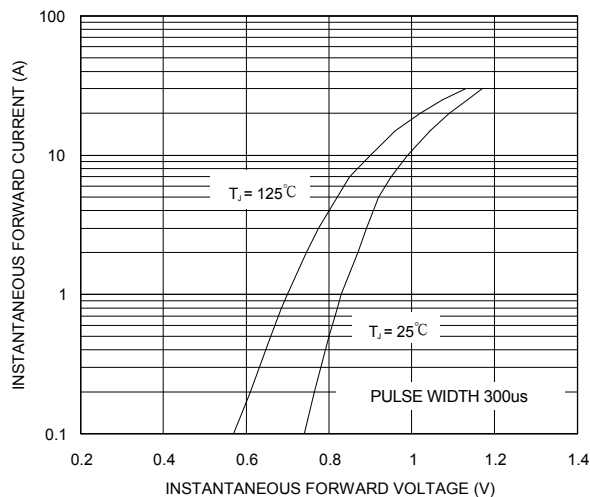
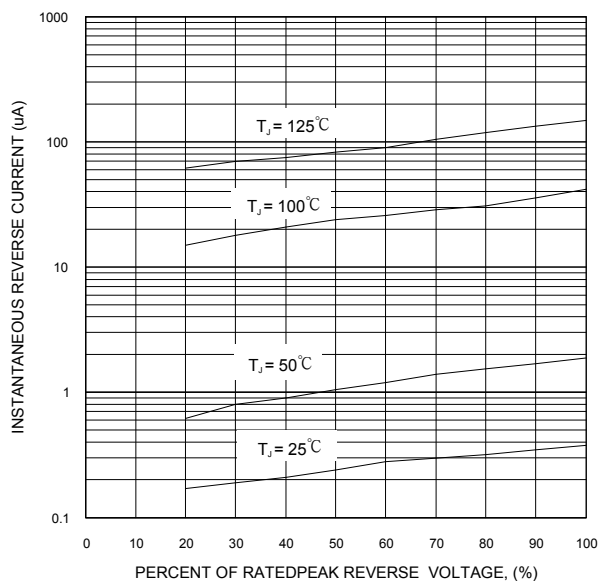


Fig.5 - TYPICAL REVERSE CHARACTERISTICS



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