

**GLASS PASSIVATED BRIDGE RECTIFIERS**

REVERSE VOLTAGE - 400 to 800 Volts  
FORWARD CURRENT - 20 Amperes

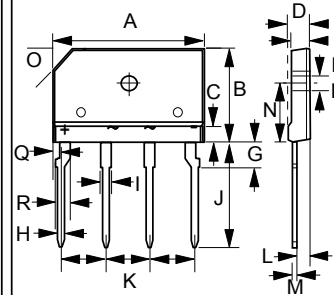
**FEATURES**

- Rating to 800V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability.
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0
- UL Recognition 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**

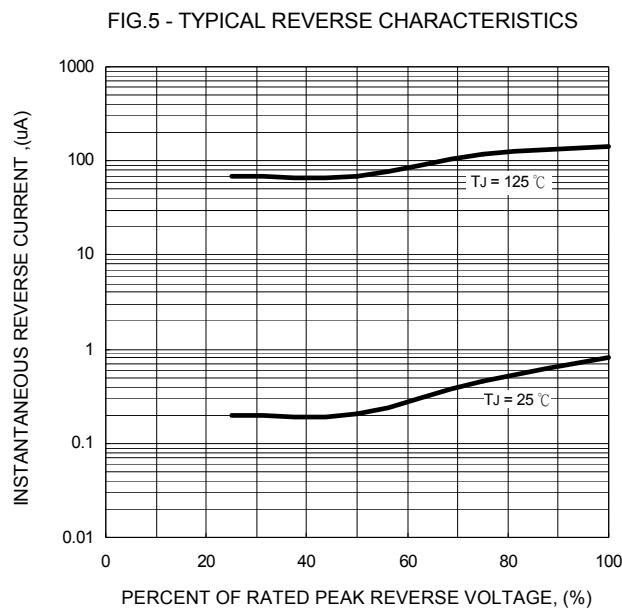
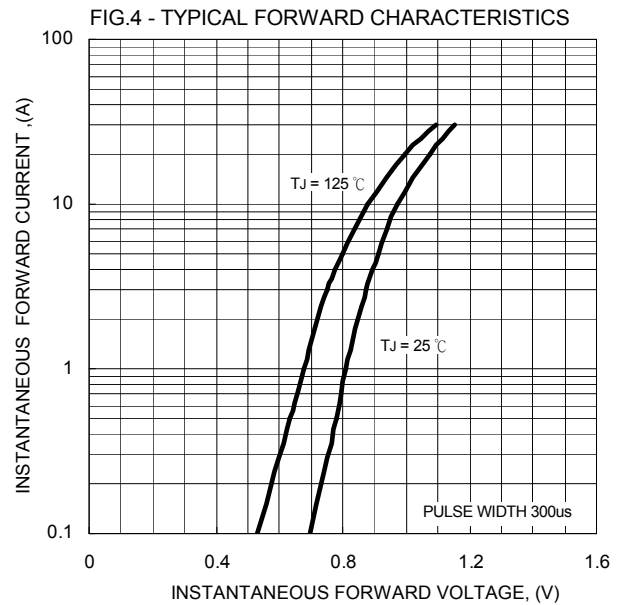
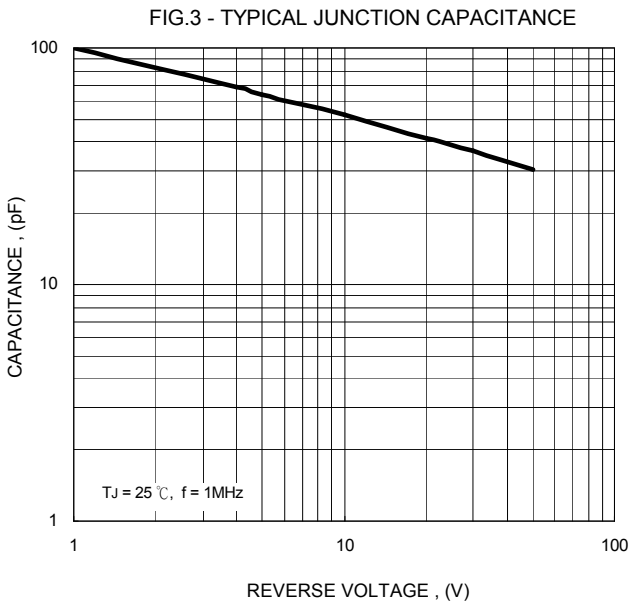
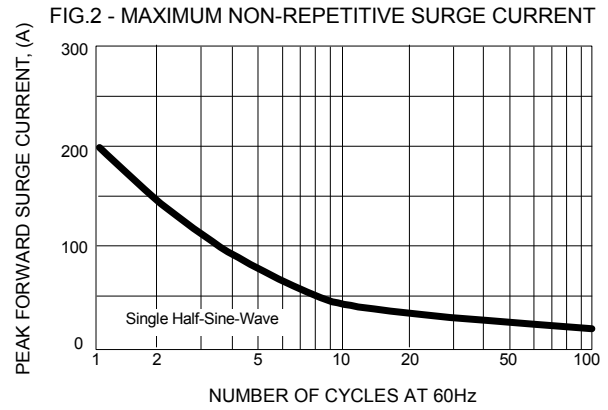
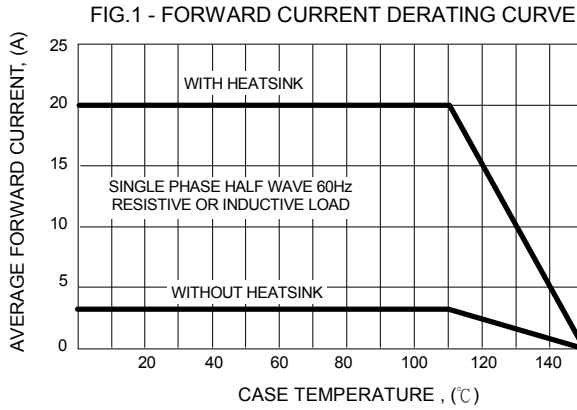
Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	KBJ2004G	KBJ2006G	KBJ2008G	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	400	600	800	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	400	600	800	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @T <sub>c</sub> =110°C (without heatsink)	I <sub>(AV)</sub>		20.0 3.0		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>		200		A
Maximum forward Voltage at 10.0A 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>		5 500		uA
I <sup>2</sup> t Rating for fusing (t < 8.3ms)	I <sup>2</sup> t		166		A <sup>2</sup> S
Typical Junction Capacitance per element (Note 1)	C <sub>J</sub>		70		pF
Typical Thermal Resistance (Note 2)	R <sub>θJC</sub>		0.8		°C/W
Mounting Torque (Recommended torque: 0.5 N.m)	TOR		0.8		N.m
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.Device mounted on 250mm x 250mm x 20mm Alumunin Plate Heatsink, Ta=25°C .

REV. 4, Nov-2011, KBDF07



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