

## GLASS PASSIVATED BRIDGE RECTIFIERS

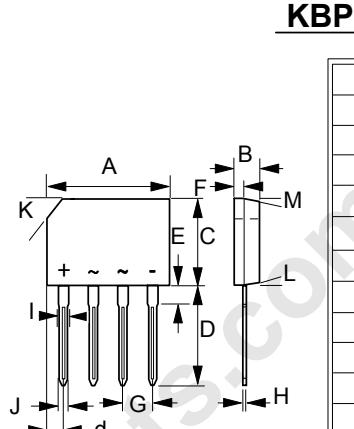
REVERSE VOLTAGE - 400 to 1000 Volts  
FORWARD CURRENT - 1.5 Amperes

## 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 : As marked on body
- Weight : 0.05 ounces, 1.52 grams
- Mounting position : Any



KBP		
DIM.	MIN.	MAX.
A	14.25	14.75
B	3.35	3.65
C	10.20	10.60
D	14.25	14.73
d	1.40	1.70
E	1.80	2.20
F	0.80	1.10
G	3.56	4.06
H	0.35	0.55
I	1.22	1.42
J	0.76	0.86
K	2.7 x 45°(Typ.)	
L	-	3°
M	-	2°

All Dimensions in millimeter

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

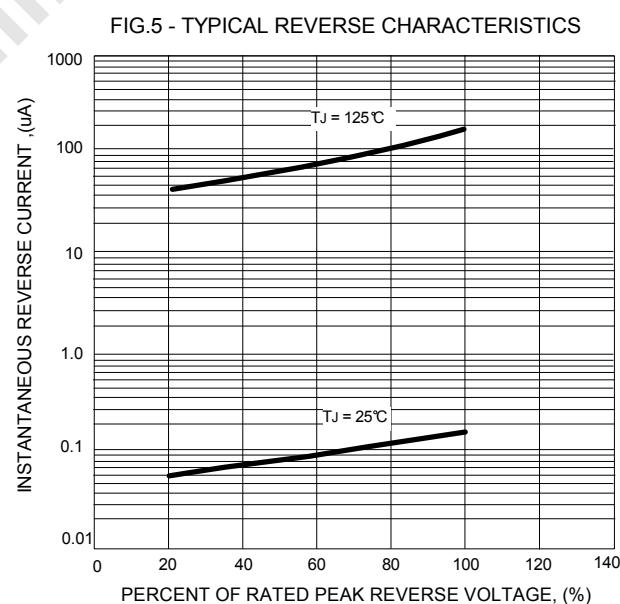
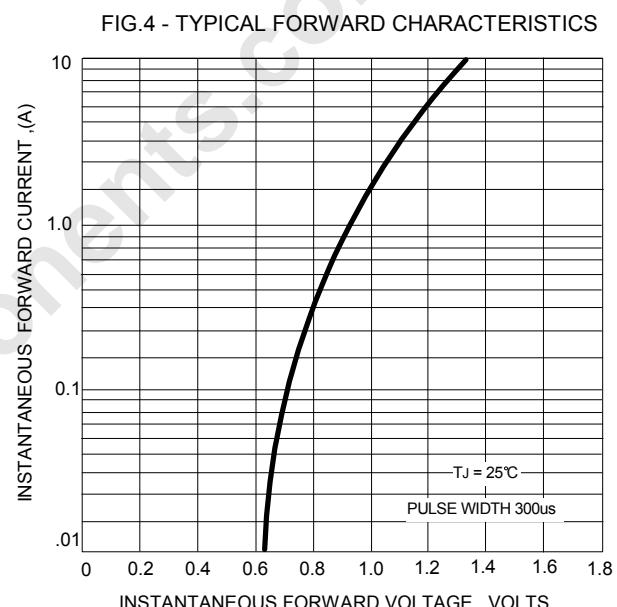
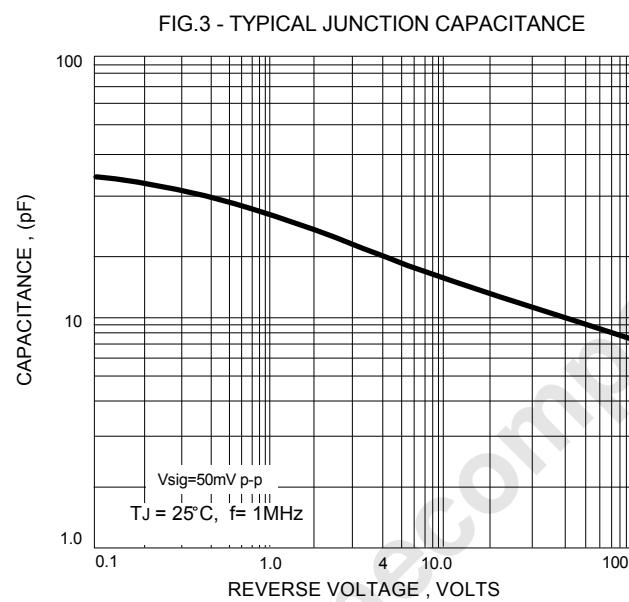
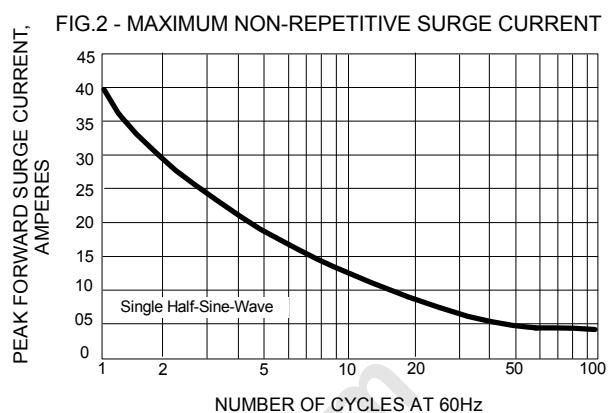
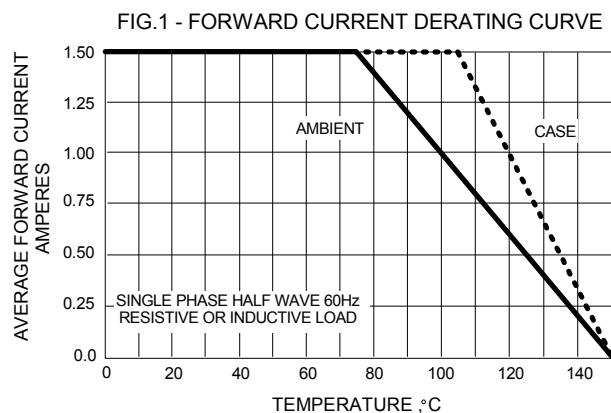
Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	KBP 04G	KBP 06G	KBP 08G	KBP 10G	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 Rectified Current @T <sub>c</sub> = 105°C @T <sub>A</sub> = 75°C	I <sub>(AV)</sub>			1.5		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>			40		A
Maximum forward Voltage at 1.5A 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 <sub>t</sub> t Rating for fusing (t < 8.3ms)	I <sub>t</sub> t			6.6		A <sup>2</sup> S
Typical Junction Capacitance per element (Note 1)	C <sub>J</sub>			20		pF
Typical Thermal Resistance (Note 2)	R <sub>θ</sub> JC			18		°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 4.0VDC.

2. Unit Mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

REV. 7, Sep-2010, KBDE01



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