

GLASS PASSIVATED BRIDGE RECTIFIERS

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

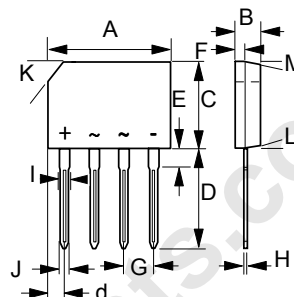
FEATURES

- 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



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	VRRM	400	600	800	1000	V
Maximum RMS Voltage	VRMS	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	400	600	800	1000	V
Maximum Average Forward Rectified Current @TC = 105 °C @TA = 75 °C	I(AV)	1.5				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	IFSM	40				A
Maximum forward Voltage at 1.5A DC	VF	1.1				V
Maximum DC Reverse Current @TJ = 25 °C at Rated DC Blocking Voltage @TJ = 125 °C	IR	5.0 500				uA
I²t Rating for fusing (t < 8.3ms)	I²t	6.6				A²S
Typical Junction Capacitance per element (Note 1)	CJ	20				pF
Typical Thermal Resistance (Note 2)	Rθ JC	18				°C/W
Operating Temperature Range	TJ	-55 to 150				°C
Storage Temperature Range	TSTG	-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.

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FIG.1 - FORWARD CURRENT DERATING CURVE

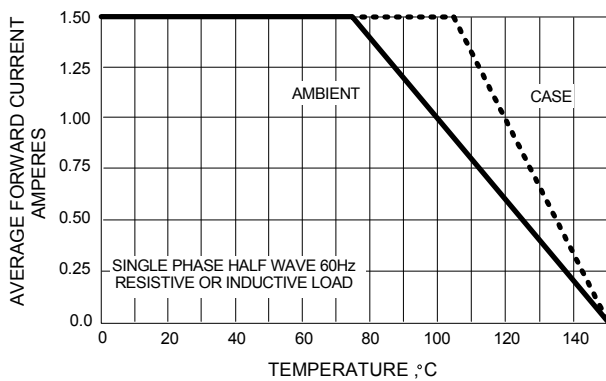


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

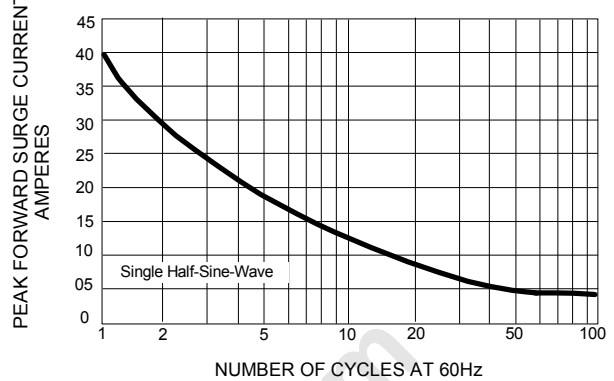


FIG.3 - TYPICAL JUNCTION CAPACITANCE

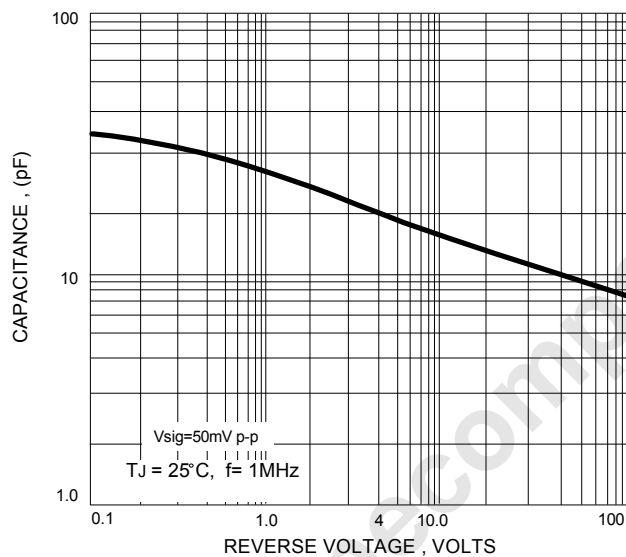


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

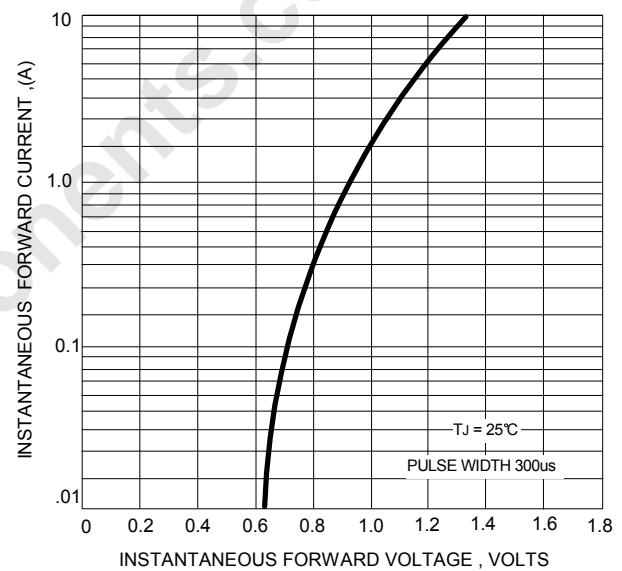
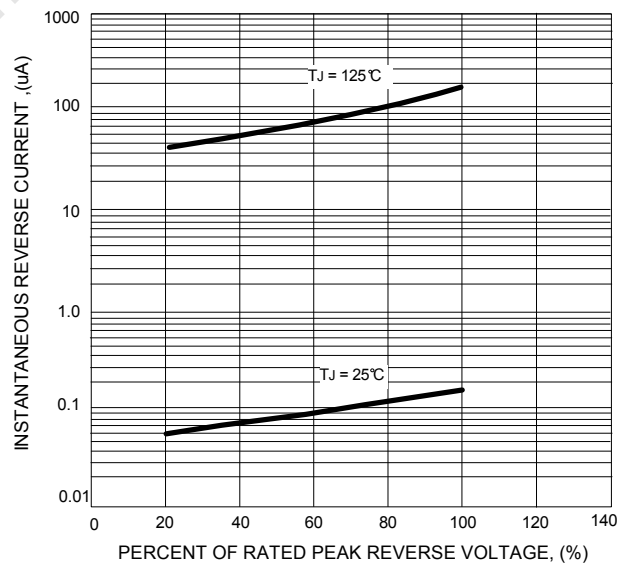


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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