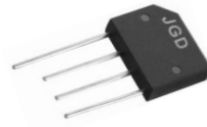


## Features

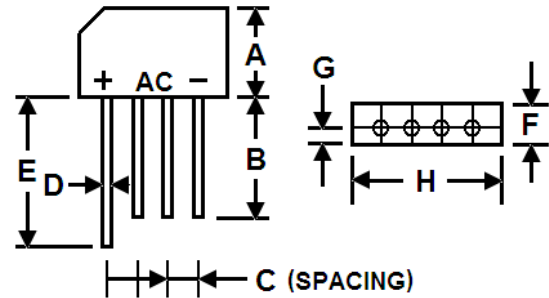
- \* Ideal for printed circuit board
- \* High surge current capability
- \* Reliable low cost construction
- \* Small size, simple installation



RoHS  
COMPLIANT

## Package Outline Dimensions

KBPM:



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
<b>A</b>	10.6	11.68	0.420	0.460
<b>B</b>	12.7	-	0.500	-
<b>C</b>	3.6	4.1	0.140	0.160
<b>D</b>	0.7	0.9	0.028	0.034
<b>E</b>	14.25	-	0.561	-
<b>F</b>	3.7	3.9	0.146	0.153
<b>G</b>	1.17	1.37	0.046	0.054
<b>H</b>	14.22	15.24	0.560	0.600

## Maximum Ratings and Electrical Characteristics

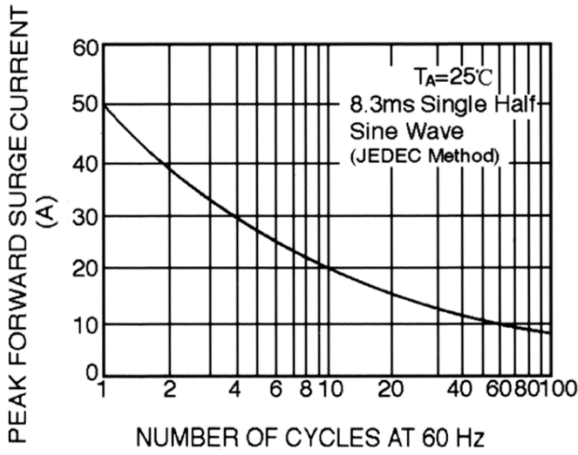
Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbols	KBP 150G	KBP 151G	KBP 152G	KBP 154G	KBP 156G	KBP 158G	KBP 1510G	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_A=50^\circ\text{C}$	$I_{F(AV)}$	1.5							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	$I_{FSM}$	50							A
Maximum Forward Voltage Drop per element at 1.5A(Note1)	$V_F$	1.1							V
Maximum Reverse Current @ $T_A=25^\circ\text{C}$ at Rated D.C Blocking Voltage @ $T_A=125^\circ\text{C}$	$I_R$	10 500							$\mu\text{A}$
Operating Temperature Range	$T_J$	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^\circ\text{C}$

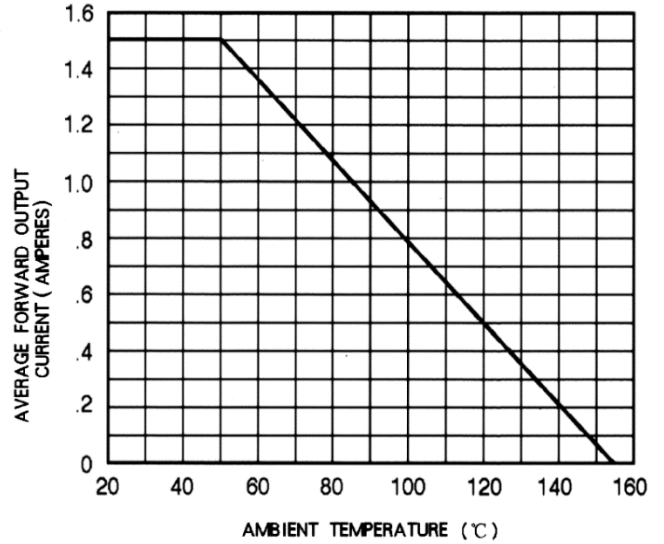
Note1: Mounted on glass-epoxy P.C.B, Soldering land  $\phi$  3mm.

## Ratings and Characteristic Curves

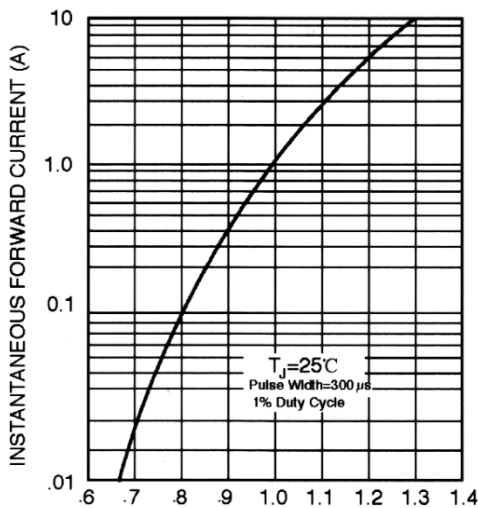
**FIG.1 – MAXIMUM NON – REPETITIVE FORWARD SURGE CURRENT – PER ELEMENT**



**FIG.2 – TYPICAL FORWARD OUTPUT CURRENT DERATING CURVE**

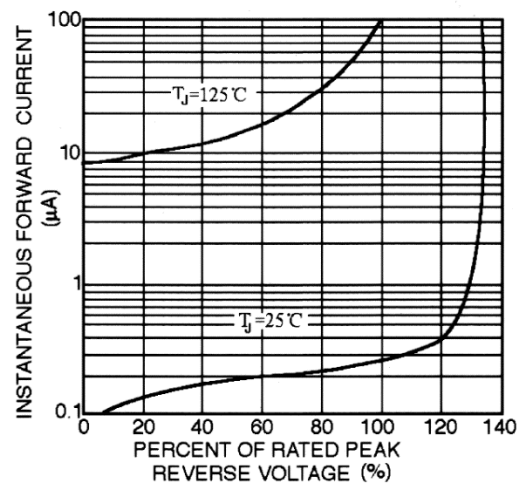


**FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS – PER ELEMENT**



INSTANTANEOUS FORWARD VOLTAGE(V)

**FIG.4 – TYPICAL REVERSE CHARACTERISTICS – PER ELEMENT**





**KBP150G THRU KBP1510G**  
*Single Phase 1.5 Amps. Glass Passivated Bridge Rectifiers*

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**Ordering Information**

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Part No.	Package	Packing
KBP150G~KBP1510G	KBPM	25pcs/Tube