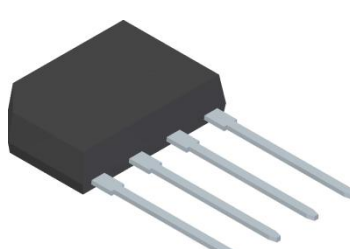
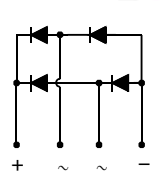


GLASS PASSIVATED BRIDGE RECTIFIERS	<p>REVERSE VOLTAGE - <b>50 to 1000</b> Volts</p> <p>FORWARD CURRENT - <b>2.0</b> Amperes</p>
<p style="text-align: center;"><u>KBP</u></p>  	<p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Rating to 1000V PRV</li> <li>• Ideal for printed circuit board</li> <li>• Reliable low cost construction utilizing molded plastic technique</li> <li>• The plastic material has UL flammability classification 94V-0</li> </ul> <p><b>Mechanical Data</b></p> <ul style="list-style-type: none"> <li>• Polarity : As marked on body</li> <li>• Weight : 0.05 ounces, 1.52 grams</li> <li>• Mounting position : Any</li> </ul>

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

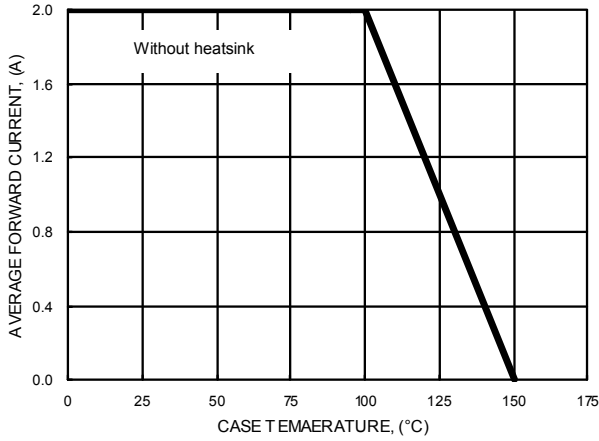
Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	KBP 2005G	KBP 201G	KBP 202G	KBP 204G	KBP 206G	KBP 208G	KBP 210G	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_C=100^\circ C$	$I_{(AV)}$	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave	$I_{FSM}$	60							A
Maximum Forward Voltage at 2.0A DC	$V_F$	1.1							V
Maximum DC Reverse Current at rated Blocking Voltage @ $T_J=25^\circ C$ @ $T_J=125^\circ C$	$I_R$	5.0 500							$\mu A$
$I^2 t$ Rating for fusing ( $3ms \leq t \leq 8.3ms$ )	$I^2 t$	14.94							$A^2 S$
Typical Junction Capacitance per element (Note 1)	$C_J$	25							pF
Typical thermal resistance (Note 2)	$R_{\theta JC}$	10							$^\circ C/W$
	$R_{\theta JL}$	18							
	$R_{\theta JA}$	40							
Operation Temperature Range	$T_J$	-55 to 150							$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to 150							$^\circ C$

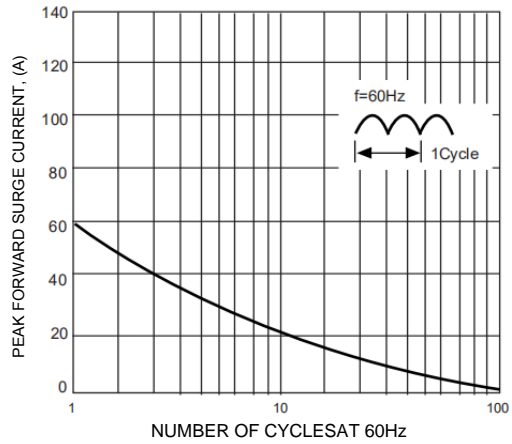
Note: (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

(2) Thermal Resistance Junction to Case, Lead and Ambient.

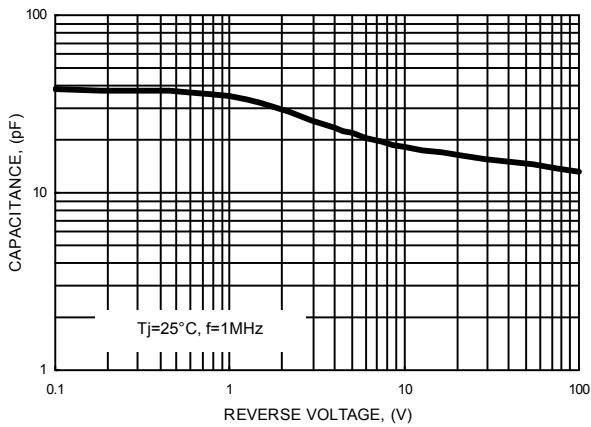
**FIG.1- FORWARD CURRENT DERATING CURVE**



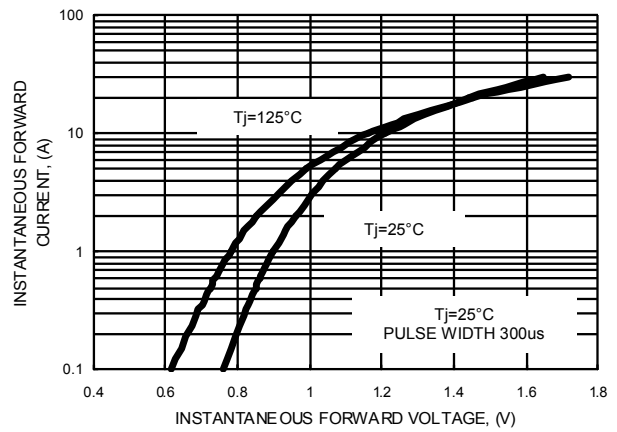
**FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT**



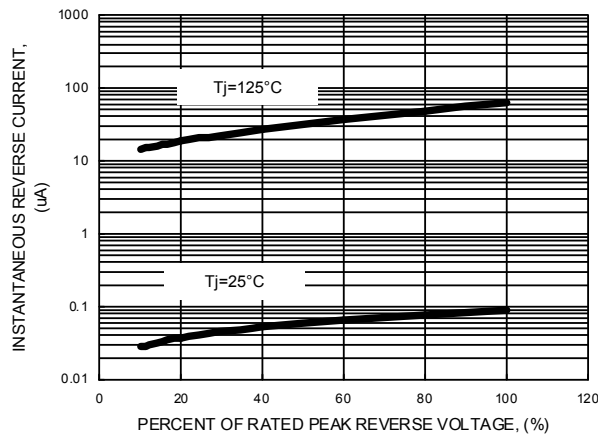
**FIG.3- TYPICAL JUNCTION CAPACITANCE**



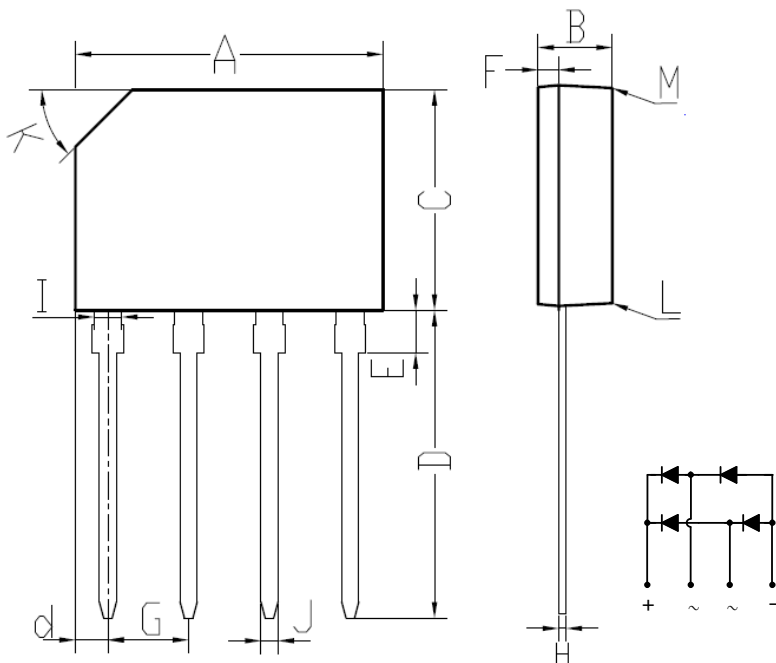
**FIG.4- TYPICAL FORWARD CHARACTERISTICS**



**FIG.5- TYPICAL REVERSE CHARACTERISTICS**



## KBP Package Outline Dimensions



KBP		
DIM.	MIN.	MAX.
A	14.20	14.70
B	3.30	3.60
C	10.20	10.60
D	13.80	14.40
d	1.40	1.70
E	1.80	2.20
F	0.80	1.10
G	3.71	3.91
H	0.30	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		

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