

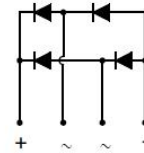
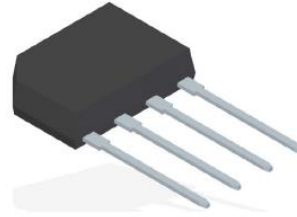
# KBP301 Thru KBP310

## Glass Passivated Molding Single-Phase Bridge Rectifier

Reverse Voltage 100 to 1000V Forward Current 3.0 A

### 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



### MECHANICAL DATA

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

## 1. Maximum & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	Symbol	KBP301	KBP302	KBP304	KBP306	KBP308	KBP310	Unit
Maximum repetitive voltage	VRRM	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	100	200	400	600	800	1000	V
Maximum DC reverse current	IR	5						$\mu$ A
at rated DC blocking voltage TA=125°C		500						
Average rectified forward current Tc=105°C With heatsink	Io	3						A
Average rectified forward current Tc=105°C without heatsink	Io	1.9						A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	IFSM	75						A
Rating of fusing (t<8.3ms)	I <sup>2</sup> t	26.5						A <sup>2</sup> sec
Dielectric strength terminals to case, AC 1 minute Current 1mA	Vdia	2.5						KV
Max instantaneous forward voltage at 2.0A	VF	1.1						V
Maximum thermal on P.C.B. without heat-sink	R $\theta$ JA	40						°C/W
	R $\theta$ JC	12						
Operating junction temperature	TJ	-55~150						°C
Storage temperature	Tstg	-55~150						°C

Note: Thermal Resistance Junction to Case, and Ambient without heatsink

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## 2. Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 Derating Curve

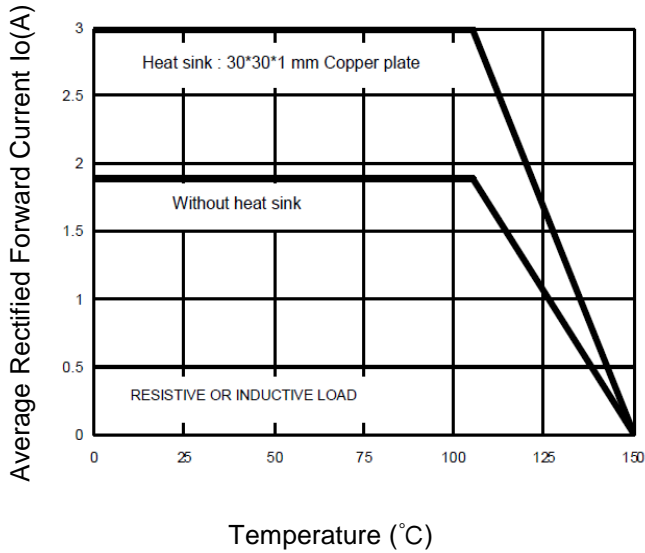


Fig.2 Typical Reverse Characteristics

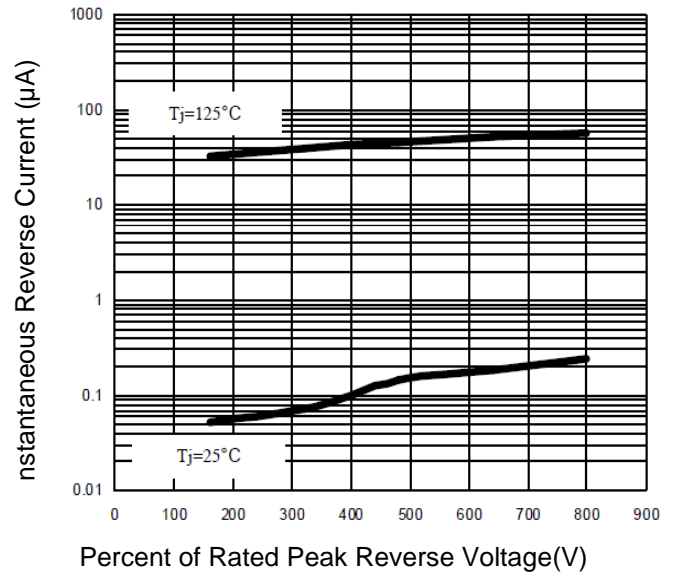


Fig.3 Forward Voltage

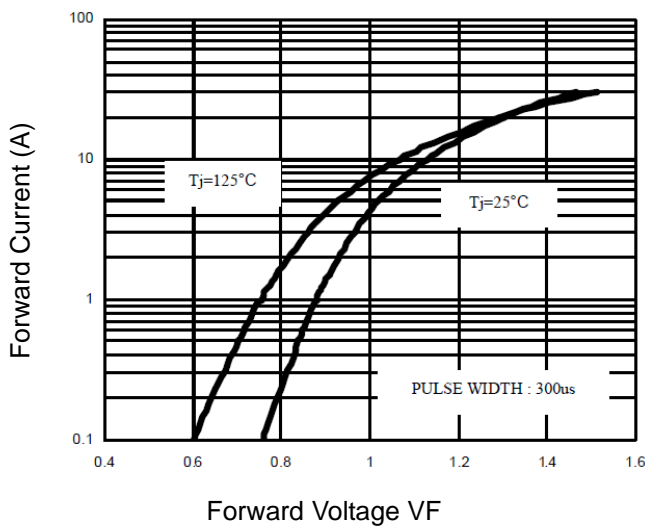
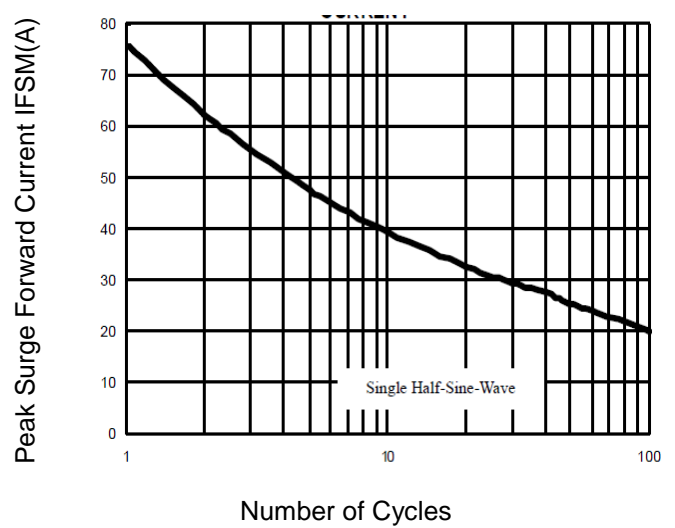
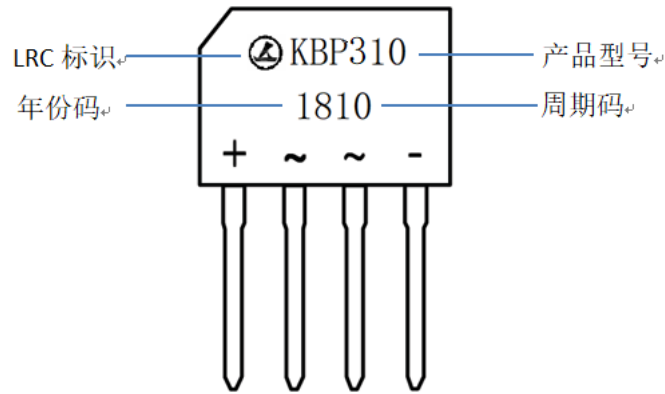


Fig.4 Peak Surge Forward Capability



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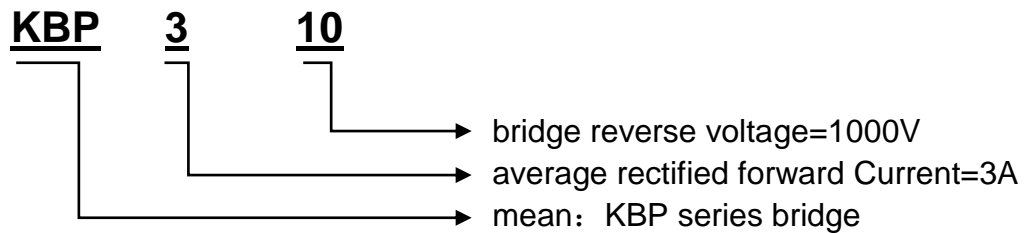
## 3. Marking Identification



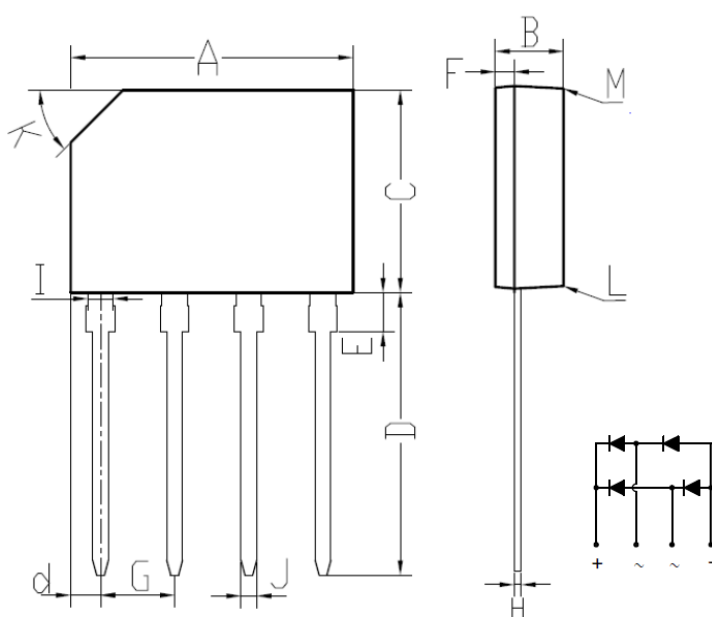
### Note:

生产日期码包含4位数字，例如“1810”，前两个数字“18”表示为2018年，另外二个数字“10”是指第10周，即表示该产品为2018年10周生产。

型号:



## 4. Dimension



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		

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