

Descriptions

2A Single-Phase Bridge Rectifier, Reverse Voltage:50~1000V, KBP package..

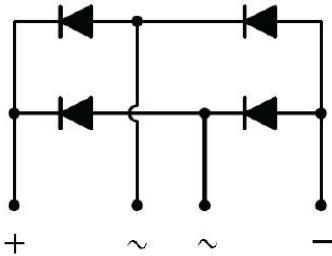
Features

- Ideal for printed circuit board
- Case material molded plastic
- The plastic material has U/L flammability classification 94V-0
- Halogen free product

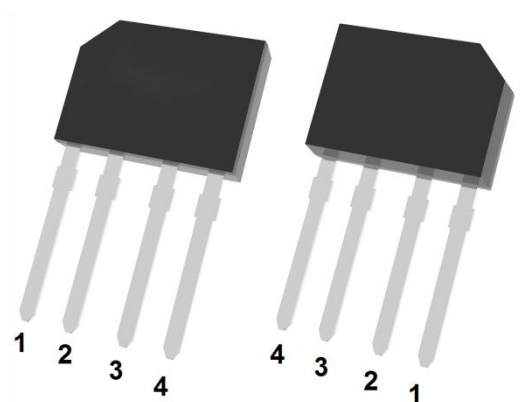
Applications

General purpose

Equivalent Circuit



Pinning



PIN1: DC+

PIN2: AC

PIN 3: AC

PIN 4: DC-

Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating							Unit
		KBP 2005G	KBP 201G	KBP 202G	KBP 204G	KBP 206G	KBP 208G	KBP 210G	
Maximum Recurrent 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 _A =40°C	$I_{F(AV)}$	2.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60							A
Operation Temperature Range	T_j	-55 to +150							°C
Storage Temperature Range	T_{stg}	-55 to +150							°C

Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Rating	Unit
Maximum Forward Voltage	V_F	$I_F=2.0A$	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	T _a =25°C	10	μA
		T _a =125°C	500	

Electrical Characteristic Curve

Fig. 1 Derating Curve for Output Rectified Current

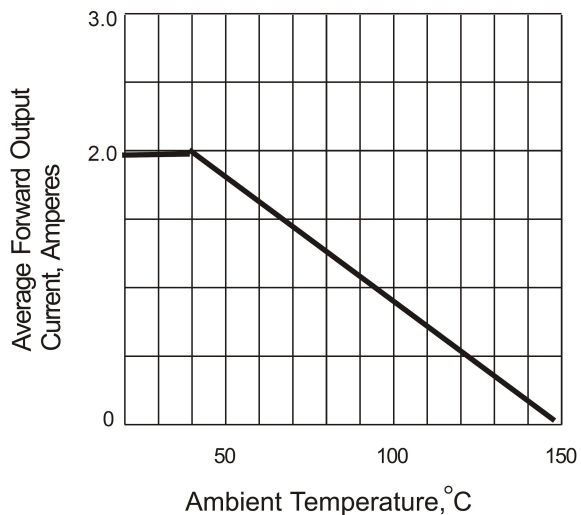


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

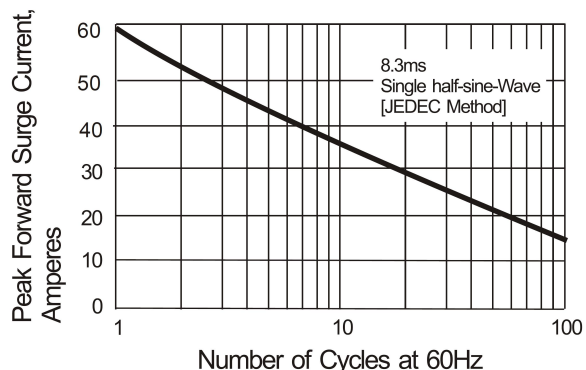


Fig. 3 Typical Instantaneous Forward Characteristics

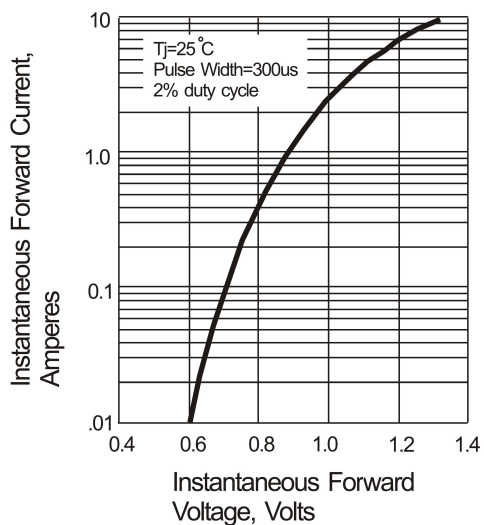


Fig. 4 Typical Reverse Characteristics

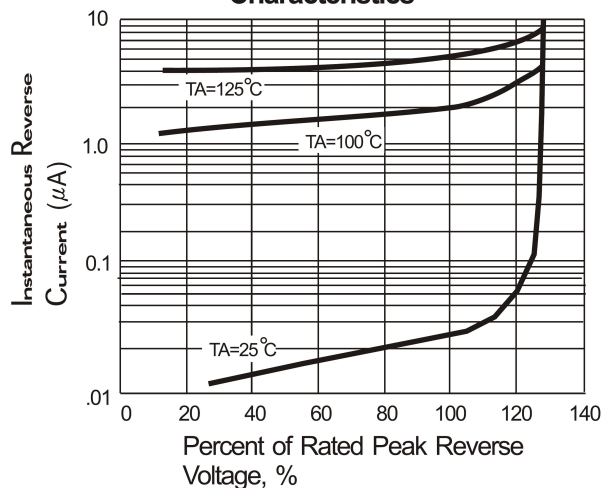
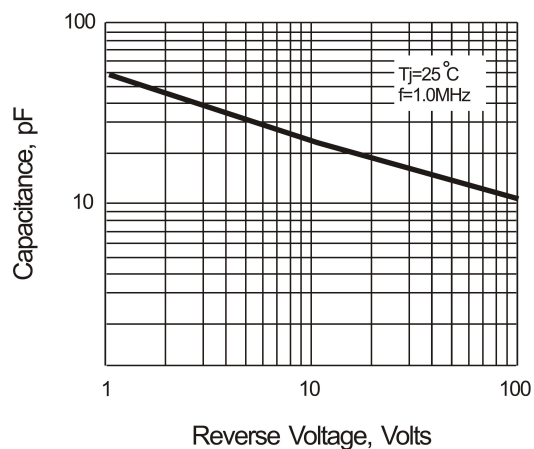
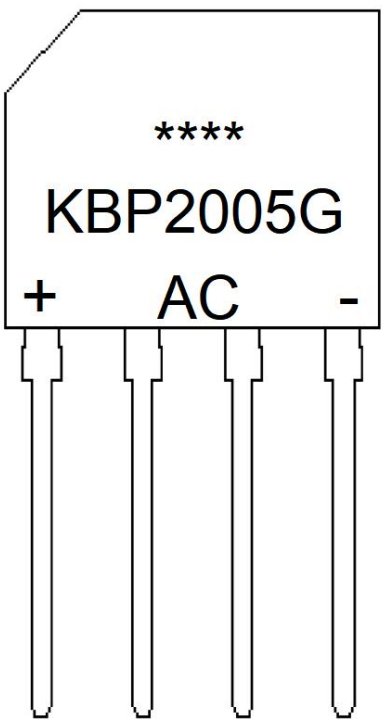


Fig. 5 Typical Junction Capacitance



Marking Instructions



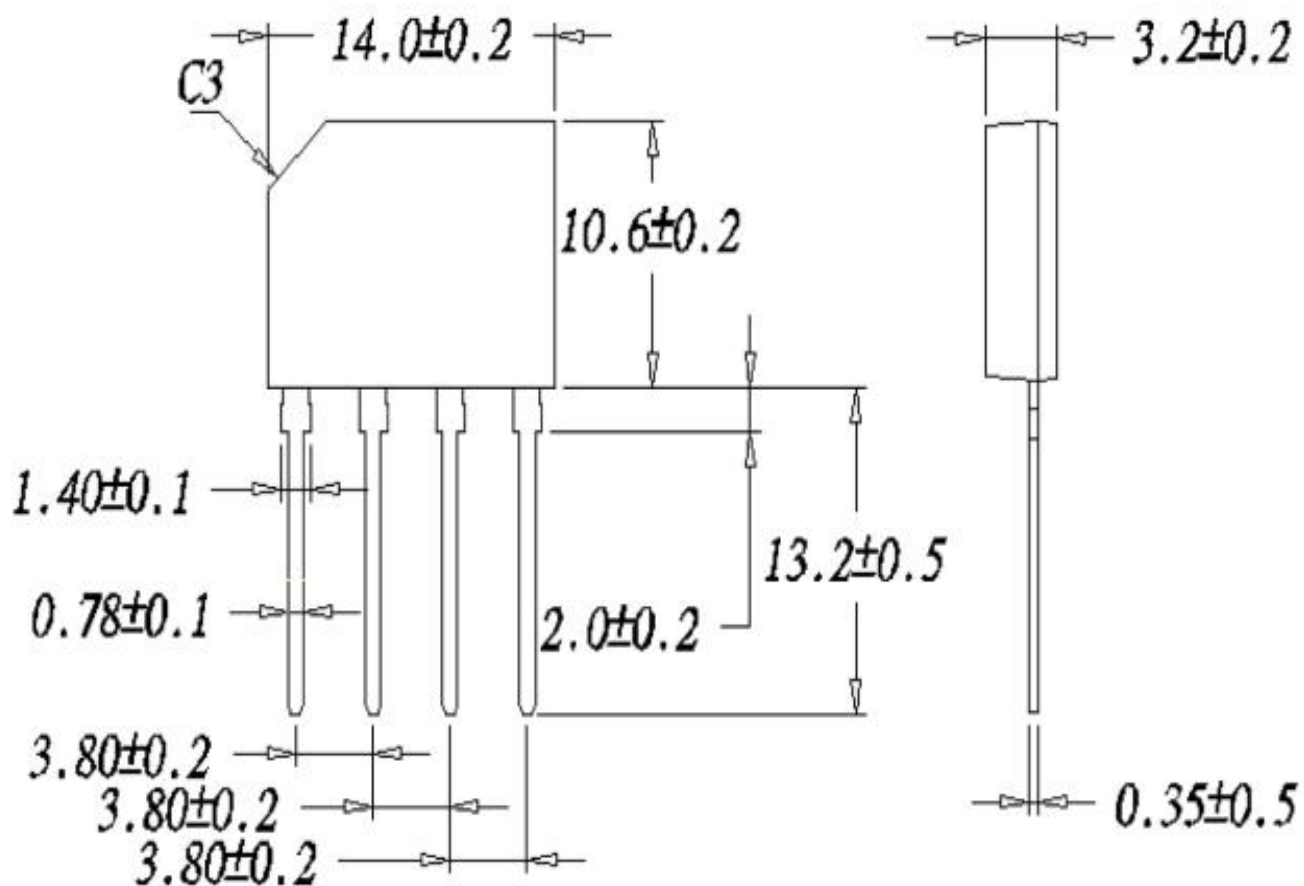
Note:

- ****: Lot No. Code, code change with Lot No
- KBP2005G: Product Type
- + AC -: Pin function

Part Number	Marking
KBP2005G	KBP2005G
KBP201G	KBP201G
KBP202G	KBP202G
KBP204G	KBP204G
KBP206G	KBP206G
KBP208G	KBP208G
KBP210G	KBP210G

Package Outline Dimensions

KBP



Dimensions in inches and (millimeters)