



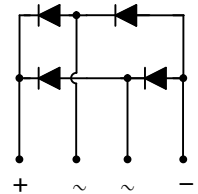
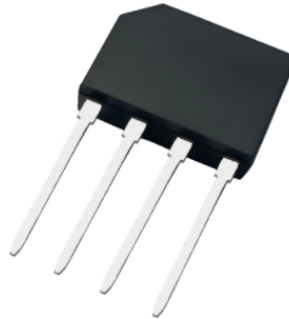
KBP4005GI THRU KBP410GI

4.0AMP Glass Passivated Bridge Rectifier

1. Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability

KBP



2. Mechanical Data

- Case:Molded Plastic,KBP.
- Epoxy:UL 94V-0 rate flame retardant.
- Terminals:Plated Leads Solderable per MIL-STD-750,Method-2026.
- Marking:marked on body.

3. Maximum Ratings and Electrical Characteristics

Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	KBP4005GI	KBP401GI	KBP402GI	KBP404GI	KBP406GI	KBP408GI	KBP410GI	UNIT
	Code	KBP4005G	KBP401G	KBP402G	KBP404G	KBP406G	KBP408G	KBP410G	
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
Average Rectified Output Current @T _C =110°C	I _{F(AV)}	4							A
Peak Forward Surge Current 8.3ms @T _J =25°C	I _{FSM}	120							A
Single half sine-wave superimposed @T _J =125°C on rated load (JEDEC Method)									
		96							
I ² t Rating for Fusing (t < 8.3ms)	I ² t	60							A ² S
Maximum Instantaneous Forward Voltage @I _F =4A	V _{FM}	1.1							V
Maximum DC reverse current @T _J =25°C	I _R	5.0							uA
at rated DC blocking voltage @T _J =125°C									
		200							
Dielectric Strength	V _{ids}	2500							V
Typical Junction Capacitance (Note 1)	C _j	30							pF
Typical Thermal Resistance	R _{θJA}	45							°C/W
	R _{θJL}								
	R _{θJC}								
		4.0							
		2.0							
Operating Temperature Range	T _J	-55 to+150							°C
Storage Temperature Range	T _{STG}	-55 to+150							°C

Note:

1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



4. Rating And Characteristic Curves

Fig. 1 Forward Current Derating Curve

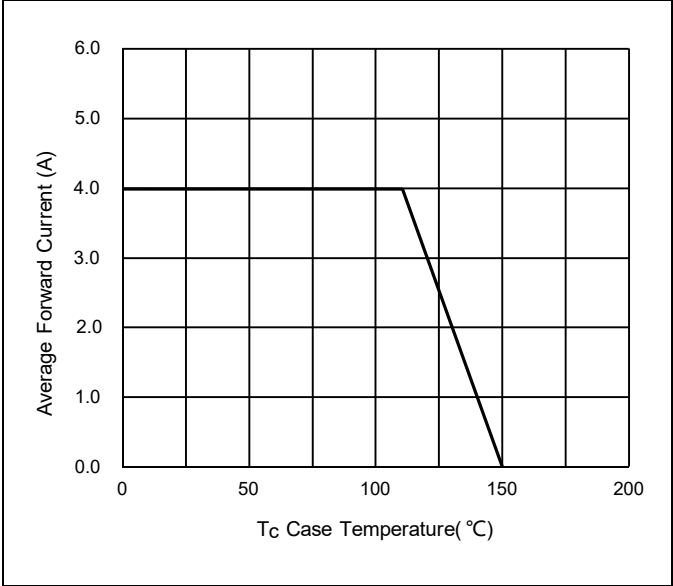


Fig. 2 Typical Forward Characteristics

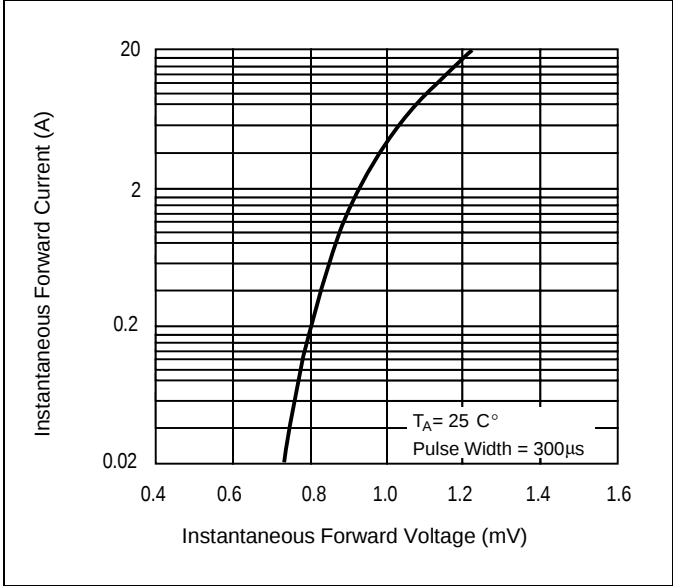


Fig. 3 Forward Surge Current Capability

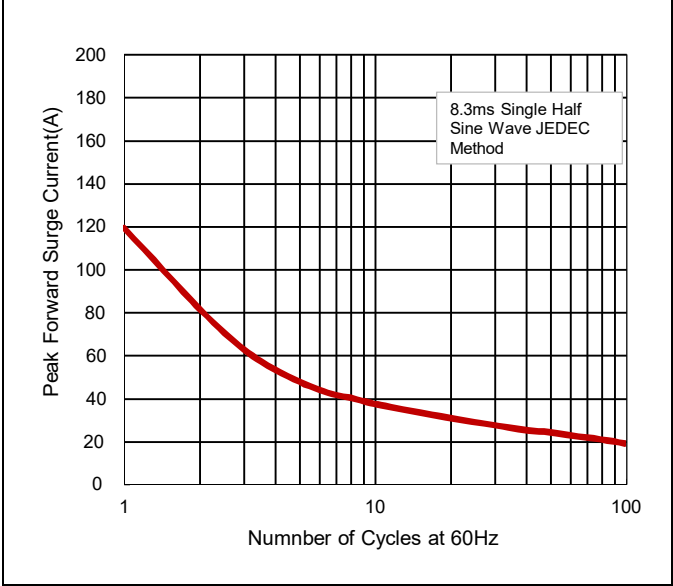
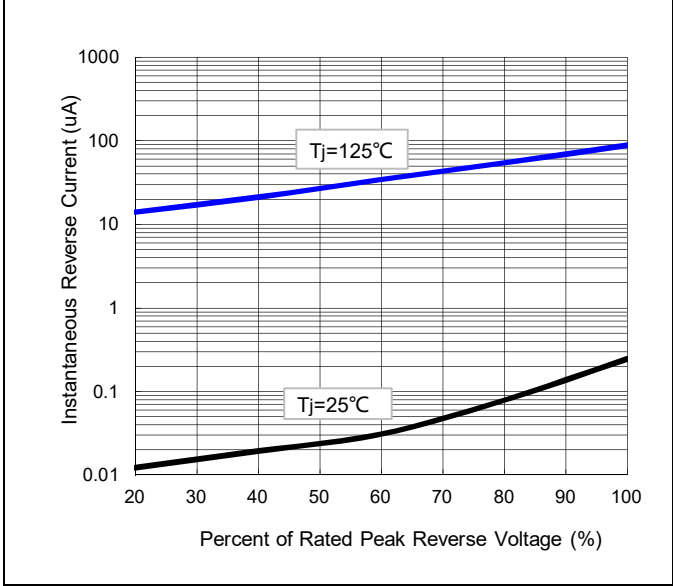


Fig.4 Typical Reverse Characteristics

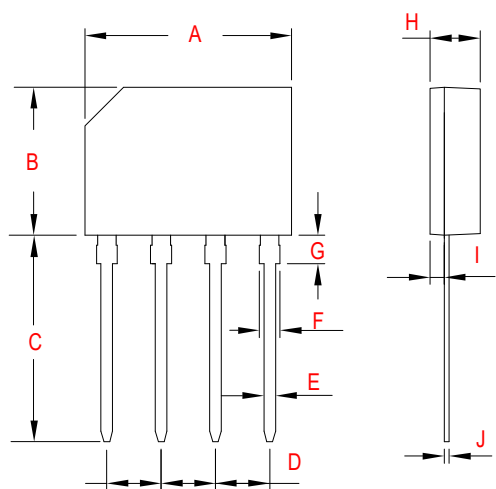




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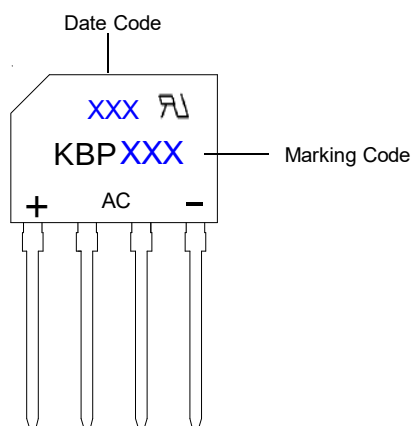
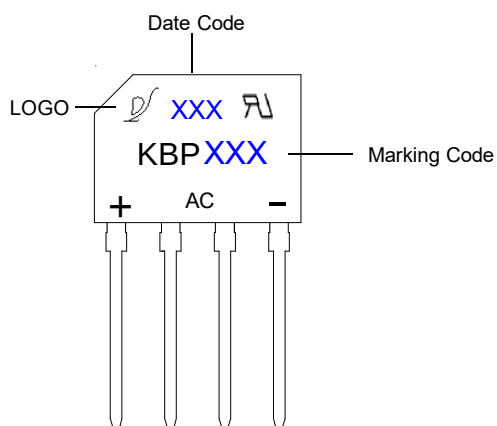
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5. Dimensions



Dimensions	Inches		Millimeters	
	Min	Max	Min	Max
A	0.561	0.581	14.25	14.75
B	0.402	0.417	10.2	10.6
C	0.563	0.583	14.3	14.8
D	0.14	0.16	3.56	4.06
E	0.030	0.034	0.76	0.86
F	0.048	0.056	1.22	1.42
G	0.071	0.087	1.8	2.2
H	0.132	0.144	3.35	3.65
I	0.031	0.043	0.8	1.1
J	0.012	0.022	0.3	0.55

6. Part Marking System



7. Package Information

Package	Minimum Package (pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
KBP	35	1400	7000	Tube



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