



GLASS PASSIVATED BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 V

Forward Current - 2 A

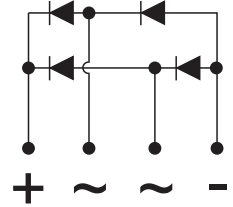
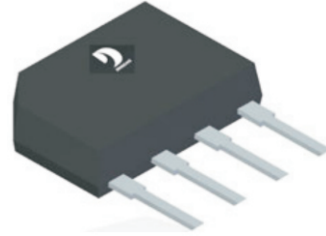
KBP-C5.5

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	KBP 2005G -C5.5	KBP 201G -C5.5	KBP 202G -C5.5	KBP 204G -C5.5	KBP 206G -C5.5	KBP 208G -C5.5	KBP 210G -C5.5	Units
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 @ Fig.1	$I_{(AV)}$	2							A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	55							A
Peak Forward Surge Current,1.0ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	110							A
I^2t Rating for fusing ($3ms \leq t \leq 8.3ms$)	I^2t	12.5							A ² S
Maximum Forward Voltage at 2 A DC	V_F	1.1							V
Maximum DC Reverse Current at $T_a = 25^\circ C$ rated Blocking Voltage $T_a = 125^\circ C$	I_R	5 500							uA
Typical Junction Capacitance per element (Note 1)	C_j	15							pF
Typical thermal resistance (without heat sink)	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	55 15 25							°C/W
Operating Junction Temperature Range	T_j	-55 ~ +150							°C
Storage Temperature Range	T_{stg}	-55 ~ +150							°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

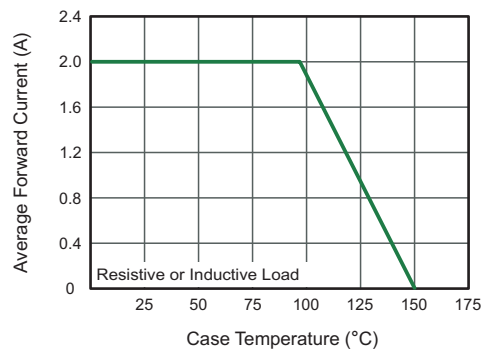


Fig.2 Typical Instantaneous Reverse Characteristics

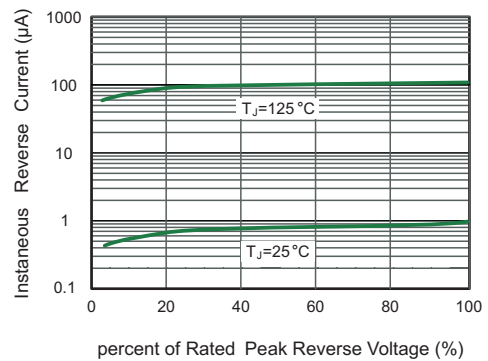


Fig.3 Typical Forward Characteristic

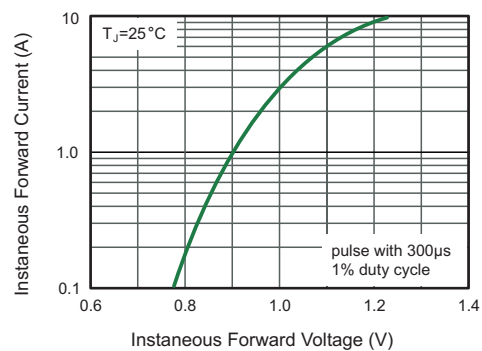


Fig.4 Typical Junction Capacitance

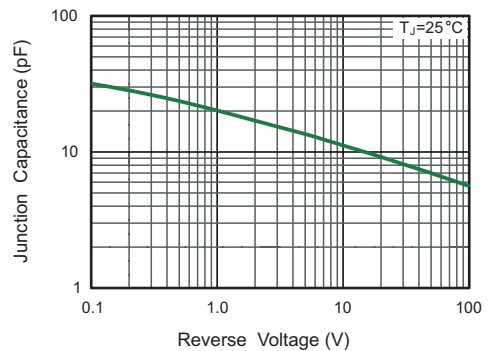
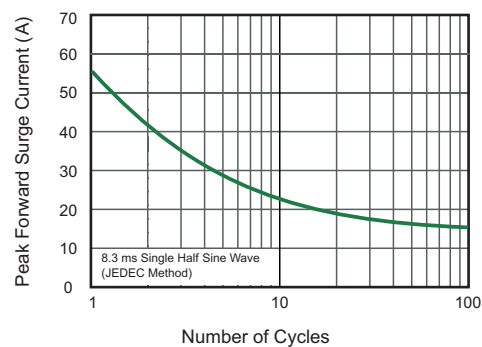
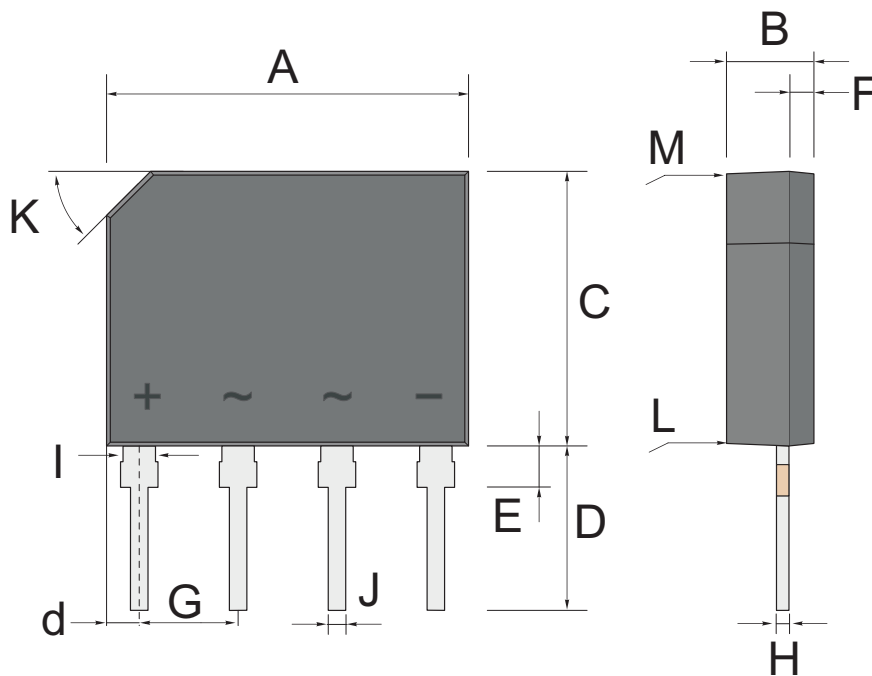


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current





KBP-C5.5 Package Outline Dimensions



Unit : mm

KBP-C5.5		
DIM.	MIN.	MAX.
A	14.25	14.75
B	3.35	3.65
C	10.20	10.60
D	5.0	6.0
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	2.7X45°(typ)	
L	#	3°
M	#	2°
All dimensions in millimrter		

Marking

Type number	Marking code
KBP2005G-C5.5	KP2005G
KBP201G-C5.5	KBP201G
KBP202G-C5.5	KBP202G
KBP204G-C5.5	KBP204G
KBP206G-C5.5	KBP206G
KBP208G-C5.5	KBP208G
KBP210G-C5.5	KBP210G



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