

KBP2005 THRU KBP210

GLASS PASSIVATED BRIDGE RECTIFIERS

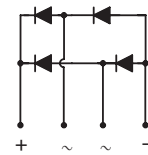
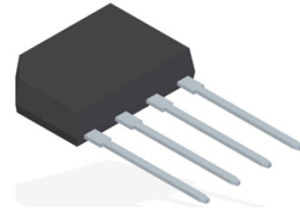
REVERSE VOLTAGE - **50 to 1000** Volts

FORWARD CURRENT - **2.0** Amperes

KBP

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

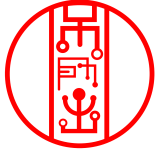
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

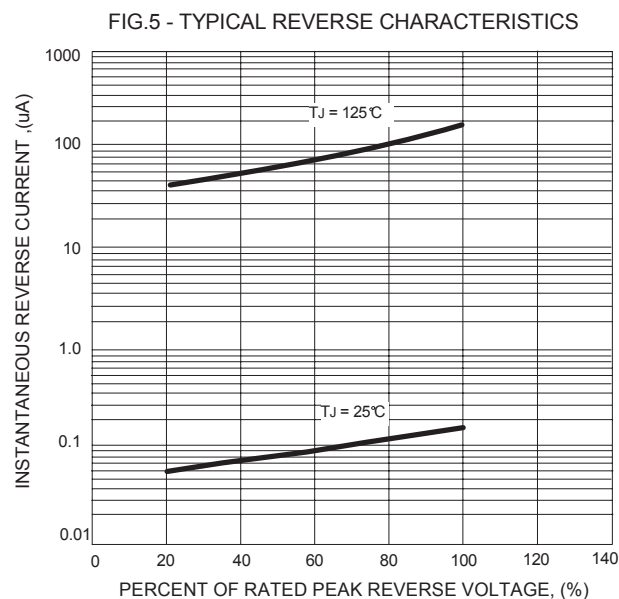
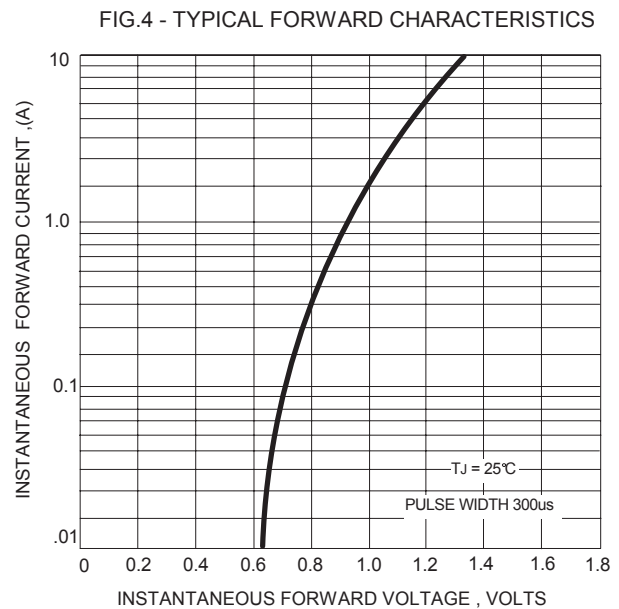
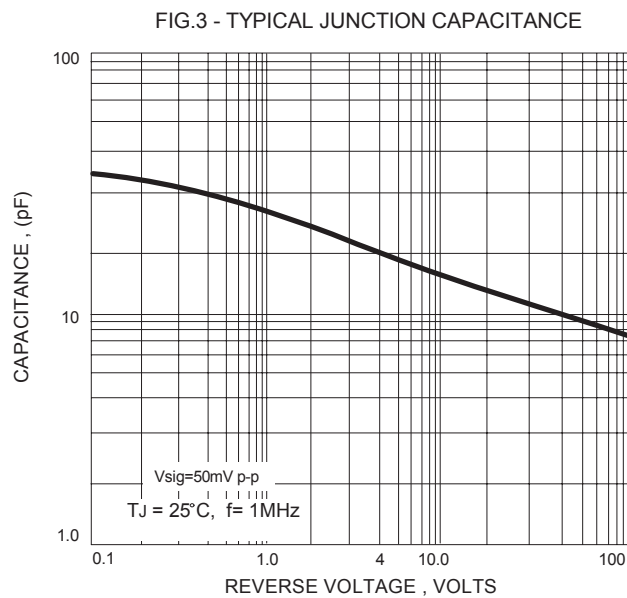
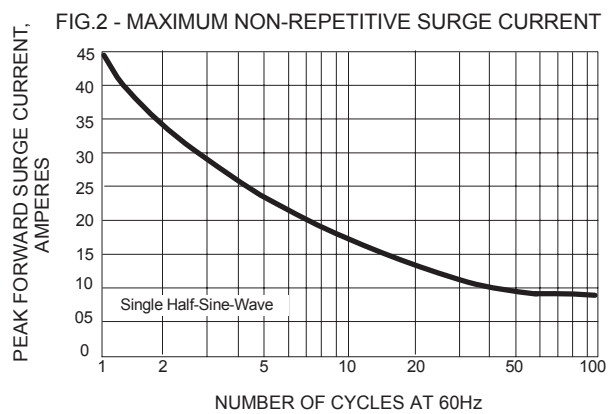
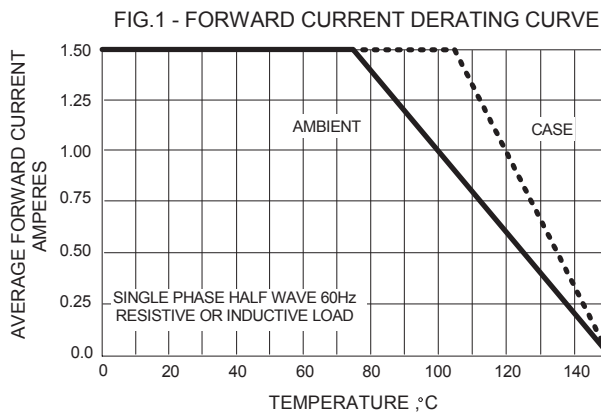
CHARACTERISTICS	SYMBOL	KBP 2005	KBP 201	KBP 202	KBP 204	KBP 206	KBP 208	KBP 210	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _C =100°C	I _(AV)	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave @ T _J = 25 °C	I _{FSM}	45							A
Peak Forward Surge Current 1.0ms single half sine-wave @ T _J = 25 °C @ T _J = 125°C	I _{FSM}	80 100							A
Maximum Forward Voltage at 2.0A DC	V _F	1.1							V
Maximum DC Reverse Current at rated Blocking Voltage @T _J =25°C @T _J =125°C	I _R	5.0 500							uA
I ² t Rating for fusing (3ms ≤ t ≤ 8.3ms)	I ² t	17.5							A ² S
Typical Junction Capacitance per element (Note 1)	C _J	25							pF
Typical thermal resistance (Note 2)	R _{θJC}	10							°C/W
	R _{θJL}	18							
	R _{θJA}	40							
Operation Temperature Range	T _J	-55 to 150							°C
Storage Temperature Range	T _{STG}	-55 to 150							°C

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

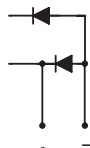
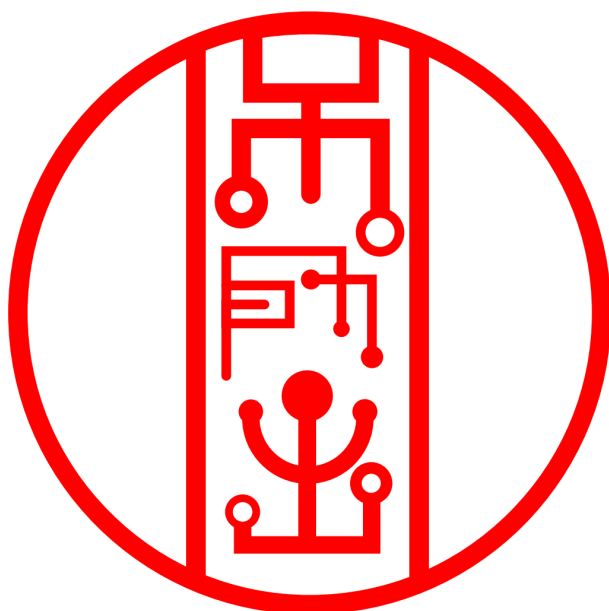
(2) Thermal Resistance Junction to Case, Lead and Ambient.



KBP2005 THRU KBP210



KBP Package Outline Dimensions



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		