

KBP6005 Thru KBP610

KBP

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 6.0 Amperes

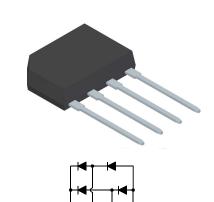
FEATURES

- 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 bodyWeight : 0.05 ounces, 1.52 grams

Mounting position : Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	KBP 6005	KBP 601	KBP 602	KBP 604	KBP 606	KBP 608	KBP 610	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 (With heatsink) Current @T _C =105°C (Without heatsink)	I _(AV)	6.0 3.0					Α		
Peak Forward Surge Current @ Tj = 25 °C 8.3ms single half sine-wave @ $T_J = 125$ °C	I _{FSM}	150 120				Α			
Maximum Forward Voltage at 4.0A DC	V _F	1.1			V				
Maximum DC Reverse Current at rated @Tj=25°C Blocking Voltage @Tj=125°C	I _R	5.0 500			uA				
2 I t Rating for fusing (3ms≦t ≦8.3ms)	2 I t	93.38				A ² S			
Typical Junction Capacitance per element (Note 1)	CJ	46			pF				
Typical thermal resistance (Unit mounted on 75mmx75mmx1.6mm Copper plate heatsink.)	Rejc	3.0			°C/W				
Typical thermal resistance (without heatsink)	Røjc	8.0			°C/W				
Operation and Storage Temperature Range	T _{J,} T _{STG}	-55 to 150				°C			

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

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FIG.1- FORWARD CURRENT DERATING CURVE

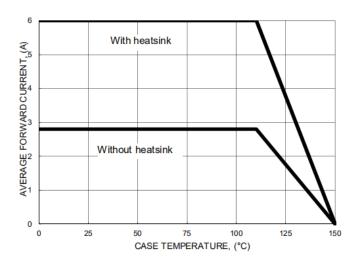


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

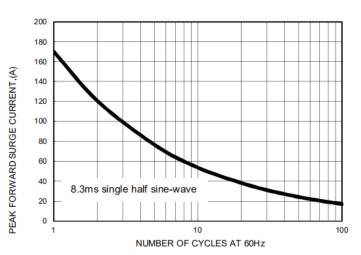


FIG.3- TYPICAL FORWORD CHARACTERISTICS

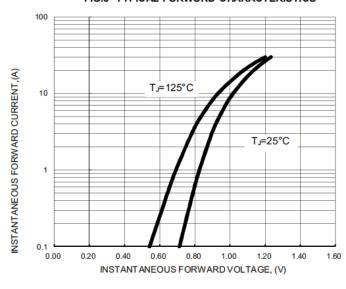
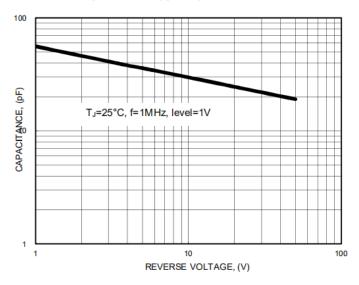
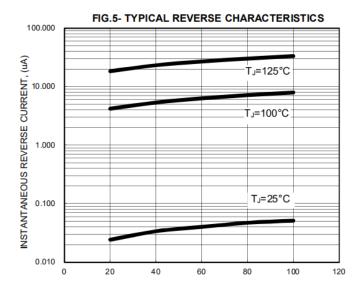


FIG.4- TYPICAL JUNCTION CAPACITANCE



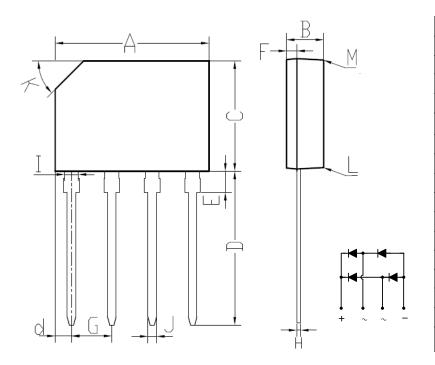


PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

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KBP Package Outline Dimensions



КВР						
DIM.	MIN.	MAX.				
Α	14.20	14.70				
В	3.30	3.60				
С	10.20	10.60				
D	13.80	14.40				
d	1.40	1.70				
Е	1.80	2.20				
F	0.80	1.10				
G	3.71	3.91				
Н	0.35	0.55				
I	1.22	1.42				
J	0.76	0.86				
K	2.7 x 45° (Typ)					
L	#	3°				
М	#	2°				
All Dimensions in millimeter						

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