

KBP2005 thru KBP210

GLASS PASSIVATED BRIDGE RECTIFIERS

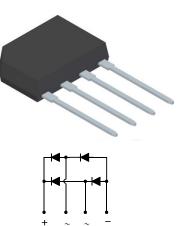
FORWARD CURRENT - 2.0 Amperes

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

REVERSE VOLTAGE - 50 to 1000 Volts

KBP



MECHANICAL DATA

- Polarity : As marked on body
- Weight : 0.05 ounces, 1.52 grams
- Mounting position : Any

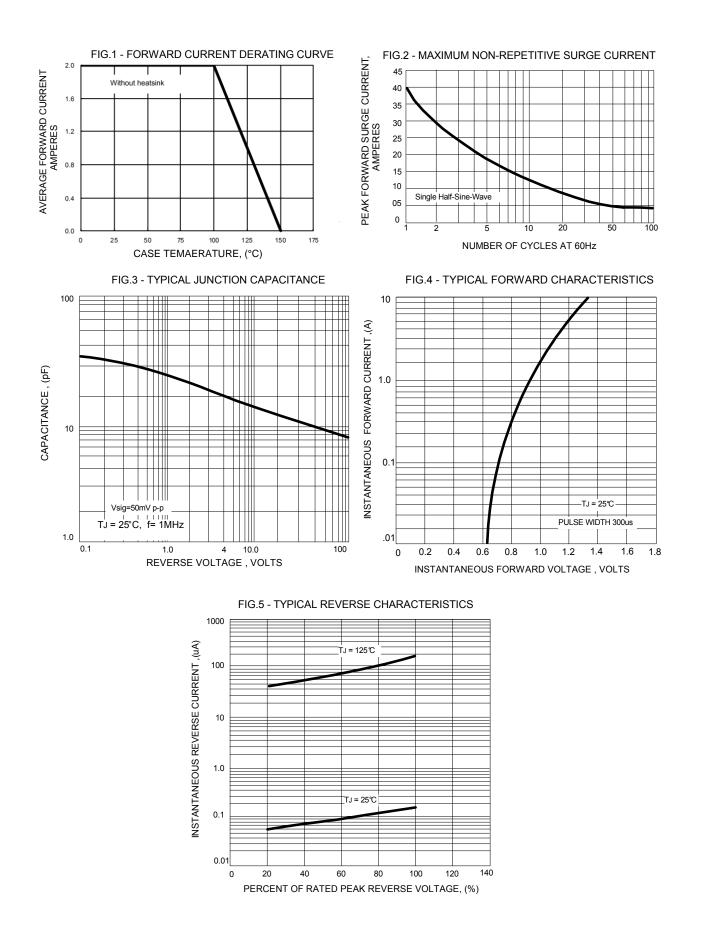
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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 $@T_C=100^{\circ}C$	I _(AV)	2.0							А
Peak Forward Surge Current 8.3ms single half sine-wave @ Tj = 25 ℃	I _{FSM}	45							A
Maximum Forward Voltage at 2.0A DC	VF	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	8.41							A ² S
Typical Junction Capacitance per element (Note 1)	CJ	25							pF
Typical thermal resistance (Note 2)	Røjc	10							°C/W
	Røjl	18							
	R _{0JA}	40							
Operation Temperature Range	TJ	-55 to 150							°C
Storage Temperature Range	T _{STG}	-55 to 150							°C

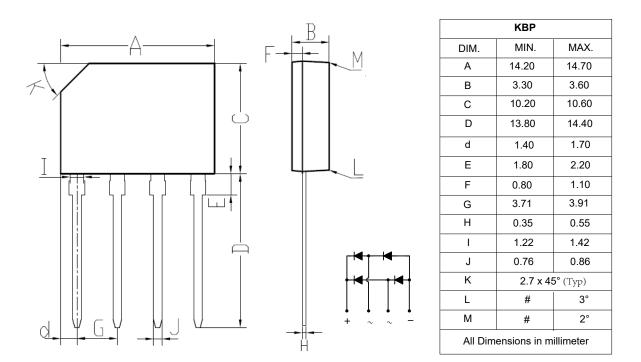
Note: (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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





KBP Package Outline Dimensions



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