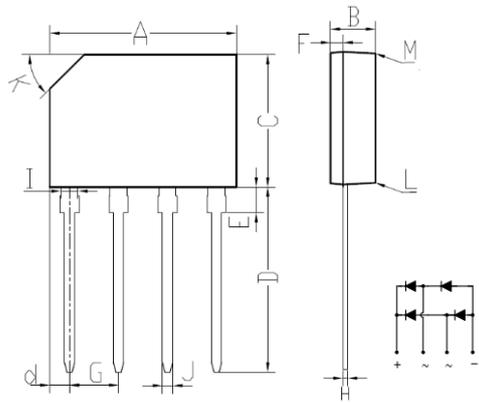


SMD Rectifier Bridge

Primary characteristics		
Parameter	Value	Unit
Maximum Repetitive Peak Reverse Voltage	100 ~ 1000	V
Maximum Average Forward Rectified Current	2.0	A

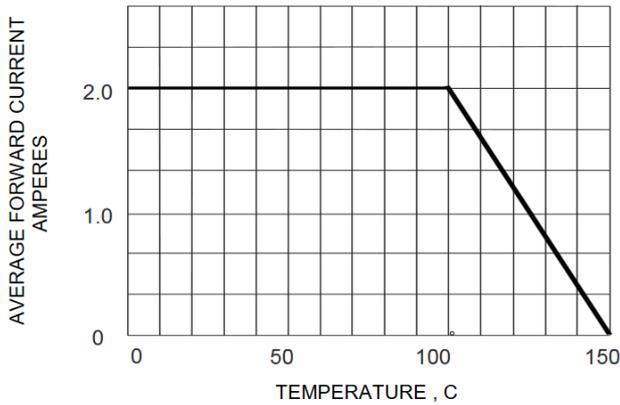
Features

- **KBP** case for easy automatic insertion.
- Pb-free and **RoHS** compliant
- Low forward voltage drop
- High current capability
- Glass passivated chip junction
- Low power loss, high efficiency
- Solderable per MIL-STD-202, Method 208
- Weight: 1.52g/0.05oz

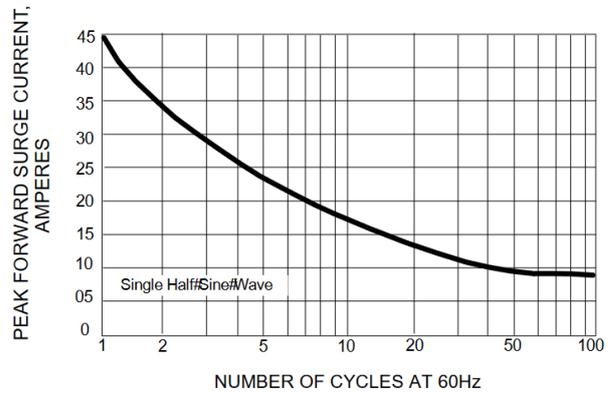
Case dimensions								
								
KBP								
Unit		A	B	c	D	d	E	F
mm	MIN	14.3	3.0	10.45	14.41	1.4	2.0	0.9
	MAX	14.6	3.3	10.75	14.71	1.7	2.3	1.2
Unit		G	H	I	J	K	L	M
mm	MIN	3.5	0.35	1.43	0.8	2.7x45°	-	-
	MAX	3.8	0.37	1.45	0.83	(Typ)	3°	2°

Absolute maximum ratings and general electrical characteristics (T _a = 25°C)								
Parameter	Symbol	Value						Unit
		KBP201	KBP202	KBP204	KBP206	KBP208	KBP210	
Maximum repetitive peak reverse voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	70	140	280	420	560	700	
Maximum DC blocking voltage	V _{DC}	100	200	400	600	800	1000	
Maximum average forward rectified current	I _(AV)	2.0						A
Peak forward surge current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I _{FSM}	60						
Peak forward surge current 1.0ms single half sine-wave		80						
		100						
Maximum instantaneous forward voltage @I _F =2.0A, 25°C	V _F	1.1						V
Maximum DC reverse current at rated DC blocking voltage	I _R	5.0						μA
		500						
I ² t rating for fusing (3ms≤t≤8.3ms)	I ² t	17.5						A ² S
Typical junction capacitance ¹⁾	C _j	25						pF
Typical thermal resistance ²⁾	R _{θJA} /R _{θJC}	40/10						°C/W
Operating junction and storage temperature range	T _j , T _{STG}	-55 ~ 150						°C
1) Measured at 1.0MHz and applied reverse voltage of 4.0VDC 2) Thermal resistance junction to case, lead and ambient								

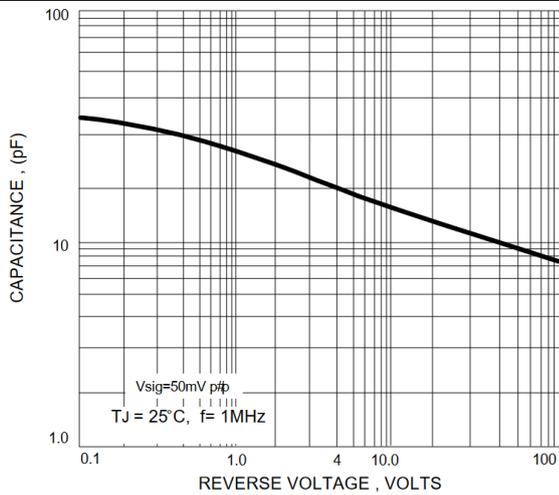
Forward current derating curve



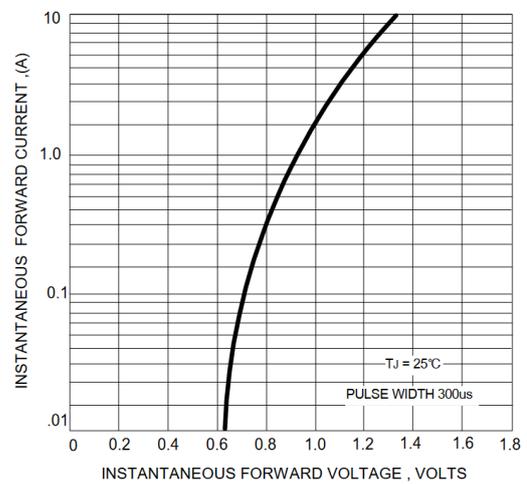
Maximum non-repetitive surge current



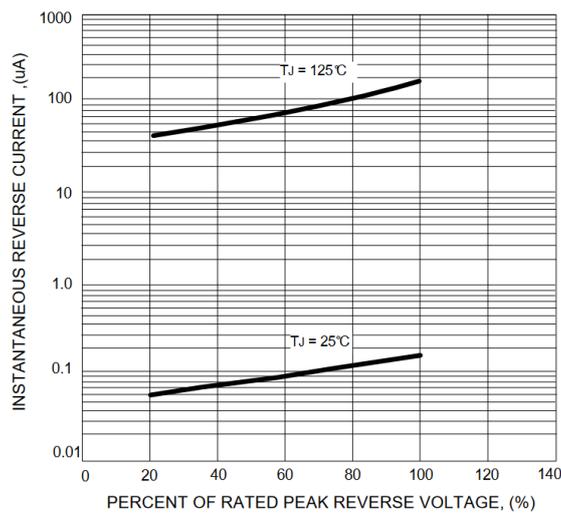
Typical junction capacitance



Typical forward characteristics



Typical reverse characteristics



Ordering information			
Part Number	Package	Shipping Quantity	Industry standard
KBP201 ~ KBP210	KBP	500 pcs	EIA-481-1

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