

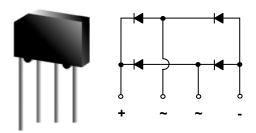
Single-Phase Bridge Rectifier in KBPM

Features

- Ideal for printed circuit boards
- High surge current capability
- Typical IR less than 0.1µA
- High case dielectric strength
- Glass passivated chip junction

Mechanical Data

- Case: KBPM(plastic package). RoHS compliant
- Molding Compound Flammability Rating: UL 94 V-0
- **Terminals:** High temperature soldering guaranteed: 260 °C/10 sec. at terminals



Applications

- Audio equipment
- Monitor
- TV
- Printer
- SMPS
- Other AC/DC rectification application

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	KBP202	KBP204	KBP206	KBP208	KBP210	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	٧
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	V
Maximum average forward output rectified current	I _{F(AV)}			2.0			Α
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}			50			Α
Rating for fusing (t < 8.3 ms)	l ² t	15			A ² s		
Operating junction and storage temperature range	T_J , T_{STG}	- 55 to + 150		°C			

Thermal Characteristics

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	KBP202	KBP204	KBP206	KBP208	KBP210	Unit
Typical thermal resistance (junction to ambient)	R _{0JA} (1)	30		°C/W			
Typical thermal resistance (junction to ambient)	R _{0JA} (2)	11		°C/W			
Typical thermal resistance (junction to lead)	R ₀ JL ⁽¹⁾	20		°C/W			

Electrical Characteristics

(T_A = 25 °C unless otherwise specified)

Parameter	Condition	Symbol	KBP202 KBP204 KBP206 KBP208 KBP210	Unit
Maximum instantaneous forward voltage per diode	I _F = 0.4 A	V_{F}	1.1	V
Maximum DC reverse current at rated DC blocking	T _A = 25 °C	I _R	5	μΑ
voltage per diode	T _A = 125 °C	I _R	500	μΑ
Typical junction capacitance per diode	4.0 V, 1 MHz	СЈ	25	pF

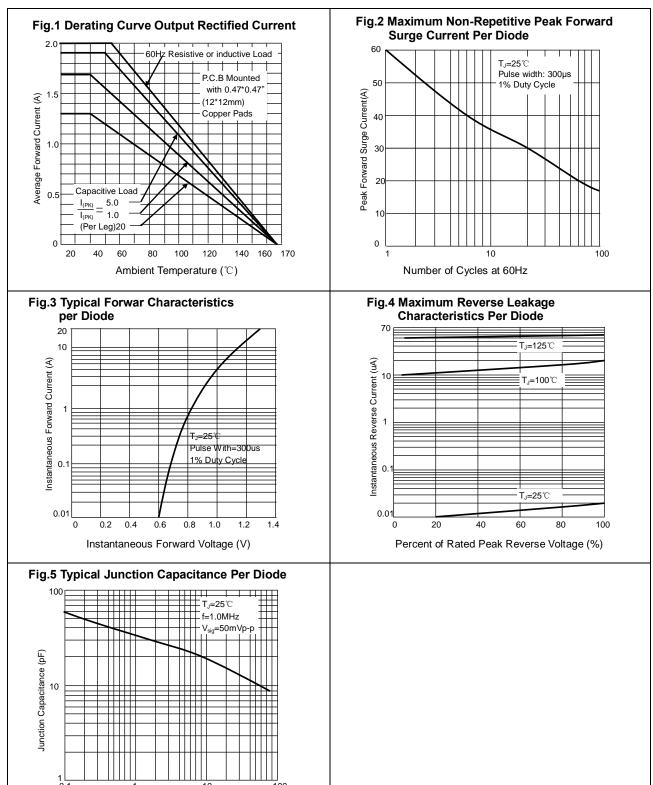
Notes

- (1) Device mounted P.C.B with 0.47*0.47"(12*12mm) Copper Pads.
- (2) JEDEC registered values



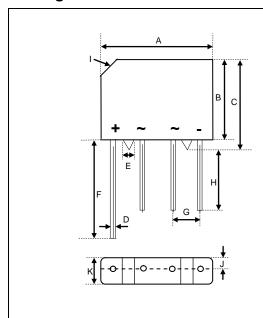
Typical Characteristics ($T_{amb} = 25 \, ^{\circ}\text{C}$ unless otherwise specified)

Reverse Voltage (V)





Package Dimensions



Dimensions	Milimeters			
Dimensions	Min	Max		
Α	14.22	15.24		
В	10.67	11.68		
С	11.68	12.70		
D	0.71	0.81		
E	1.52			
F	15.2			
G	3.60	4.10		
Н	12.70			
1	0.125×45°(3.2)			
J	2.16	2.67		
K	4.57	5.08		

Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
KBP202 thru KBP210	KBPM	BOX	500pcs / BOX	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2020	1.0	Initial release

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