KBP301 – KBP307



Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
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- Ideal for Printed Circuit Boards

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 1.7 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version,

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBP 301	KBP 302	KBP 303	KBP 304	KBP 305	KBP 306	KBP 307	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) $@T_A = 50^{\circ}C$	lo	3.0			A				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	80			A				
Forward Voltage (per element) $@I_F = 2.0A$	Vfm	1.1			V				
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	10 500			μA				
Typical Thermal Resistance (Note 3)	$R_{ heta}JA$				30				K/W
Operating and Storage Temperature Range	Тј, Тѕтс	-55 to +150			°C				

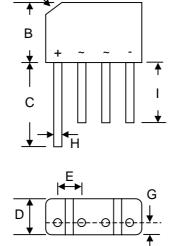
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Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance junction to ambient mounted on PC board with 12mm² copper pad.



Α

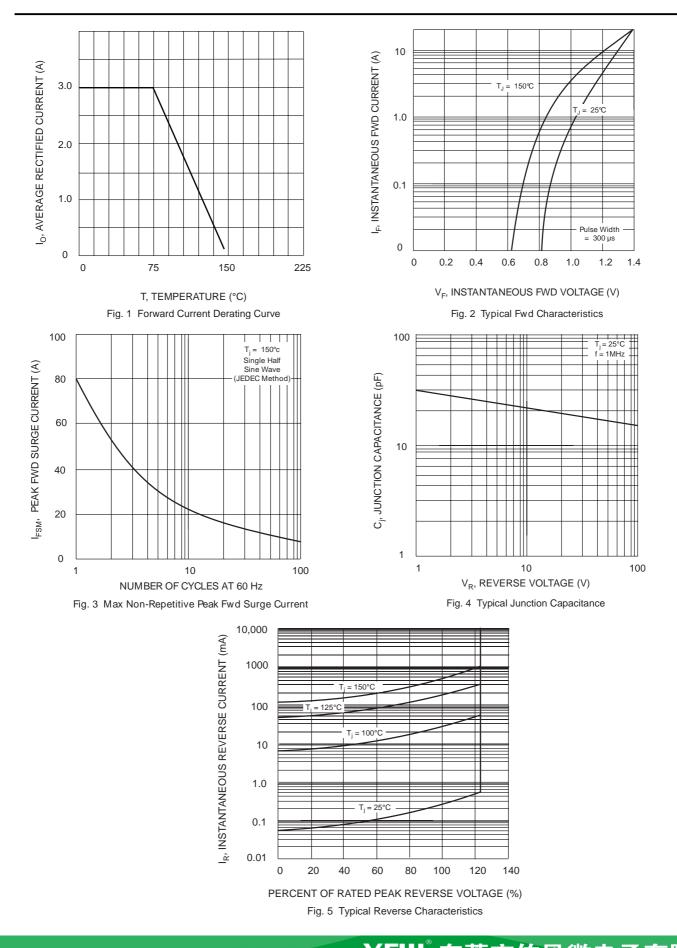
KBP-2						
Dim	Min	Max				
Α	14.22	15.24				
В	10.60	11.68				
С	15.2	—				
D	3.40	4.20				
ш	3.60	4.10				
G	1.27	—				
Н	0.70	0.90				
I	12.7	—				
J	4.2 x 45° Typical					
All Dimensions in mm						

东莞市佑风微电子有限公司

DONGGUAN YOU FENG WEI ELECTRONICS CO., LTD

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