

КВР150 – КВР1510 🏦 🙌

1.5A SINGLE-PHASE BRIDGE RECTIFIER

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Recognized File # E157705

Mechanical Data

- Case: KBP, 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, Add "-LF" Suffix to Part Number, See Page 4

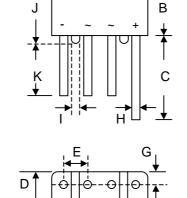
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

Characteristic	Symbol	KBP 150	KBP 151	KBP 152	KBP 154	KBP 156	KBP 158	KBP 1510	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 $@T_A = 50^{\circ}C$	ю				1.5				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50					A		
Forward Voltage per leg $@I_F = 1.5A$	Vfm				1.3				V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	Iгм				5.0 500				μA
Rating for Fusing (t<8.3ms)	² t				10				A ² s
Typical Junction Capacitance per leg (Note 1)	Cj				15				pF
Typical Thermal Resistance per leg (Note 2)	R∂JA R∂JL	40 13					°C/W		
Operating and Storage Temperature Range	Tj, Tstg	-55 to +150					°C		

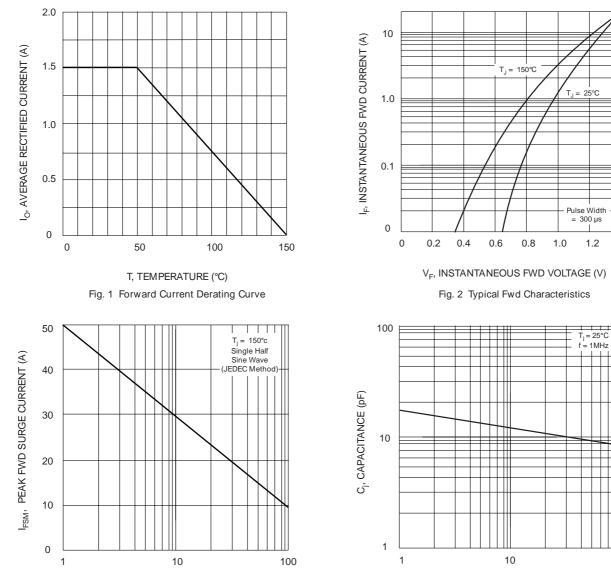
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Mounted on PC board with 12mm² copper pad.



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KBP				
Dim	Min	Max		
Α	14.22	15.24		
В	10.67	11.68		
С	15.20	_		
D	4.57	5.08		
Е	3.60	4.10		
G	1.00	1.40		
Н	0.76	0.86		
I	1.52	_		
J	11.68	12.70		
к	12.7	_		
L 3.2 x 45° Typical				
All Dimensions in mm				



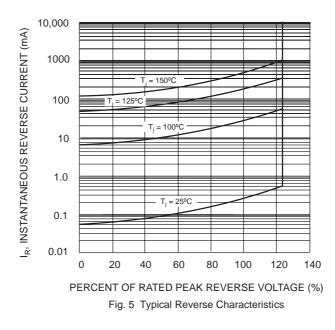
NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



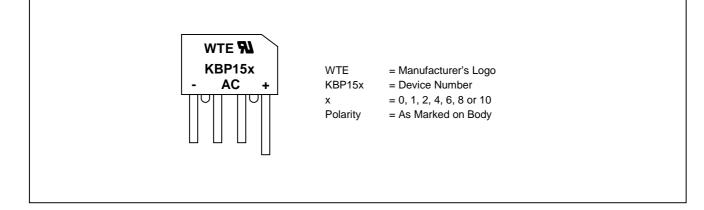
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MARKING INFORMATION



PACKAGING INFORMATION

BULK

Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
200 x 160 x 42	600	425 x 215 x 280	7,200	17.0

Note: 1. Paper box, white or brown color.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBP150	SIL Bridge	600 Units/Box
KBP151	SIL Bridge	600 Units/Box
KBP152	SIL Bridge	600 Units/Box
KBP154	SIL Bridge	600 Units/Box
KBP156	SIL Bridge	600 Units/Box
KBP158	SIL Bridge	600 Units/Box
KBP1510	SIL Bridge	600 Units/Box

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

2. To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBP150-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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