

# KBP150 – KBP1510

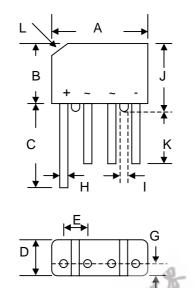
## 1.5A BRIDGE RECTIFIER

#### Features

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

#### **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



KBP						
Dim	Min	Max				
Α	14.22	15.24				
В	10.67	11.68				
С	15.2 —					
D	4.57	5.08				
Е	3.60	4.10				
G	2.16	2.67				
Н	0.76	0.86				
I	1.52 —					
J	11.68	12.7				
к	12.7	_				
L	3.2 x 45° Typical					
All Dimensions in mm						

### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=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 (Note 1) $@T_A = 50^{\circ}C$	lo				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 element) $@I_F = 1.5A$	Vfm				1.3				V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IDM				10 500				μA
Rating for Fusing (t<8.3ms)	l <sup>2</sup> t				10				A <sup>2</sup> s
Typical Junction Capacitance per element (Note 2)	Cj	15				pF			
Typical Thermal Resistance (Note 3)	RθJA	28					K/W		
Operating and Storage Temperature Range	Tj, TSTG	-55 to +150					°C		

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 12mm<sup>2</sup> copper pad.

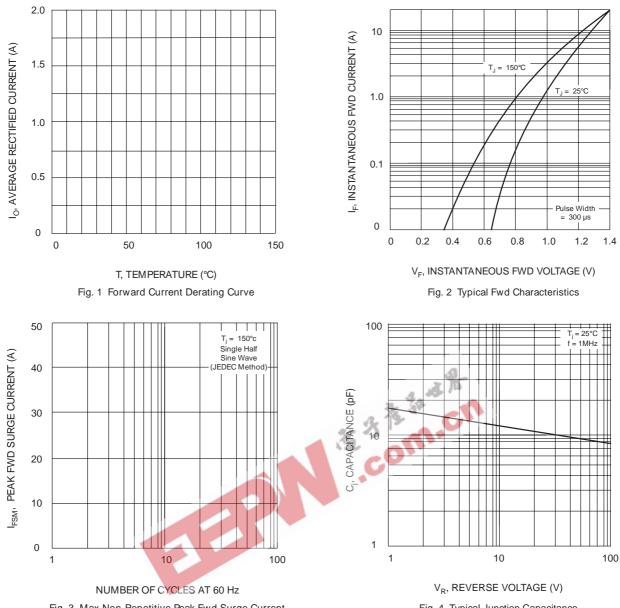
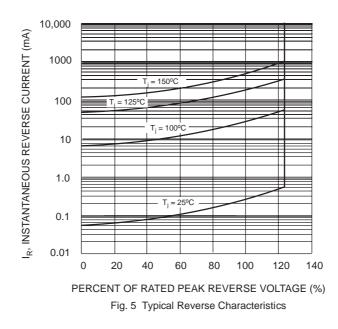


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

Fig. 4 Typical Junction Capacitance



#### ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBP150	SIL Bridge	1000 Units/Box
KBP151	SIL Bridge	1000 Units/Box
KBP152	SIL Bridge	1000 Units/Box
KBP154	SIL Bridge	1000 Units/Box
KBP156	SIL Bridge	1000 Units/Box
KBP158	SIL Bridge	1000 Units/Box
KBP1510	SIL Bridge	1000 Units/Box

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



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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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