

KBP150G – KBP1510G

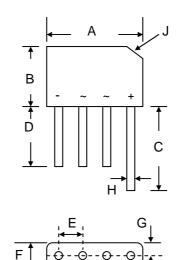
1.5A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

# Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Recognized File # E157705

### **Mechanical Data**

- Case: KBPM, 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



KBPM					
Dim	Min	Max			
Α	14.22	15.24			
В	10.60	11.68			
С	15.20	_			
D	12.70				
Е	3.60	4.10			
F	3.70	3.90			
G	1.27 Typical				
Н	0.70	0.90			
J	3.2 x 45° Typical				
All Dimensions in mm					

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

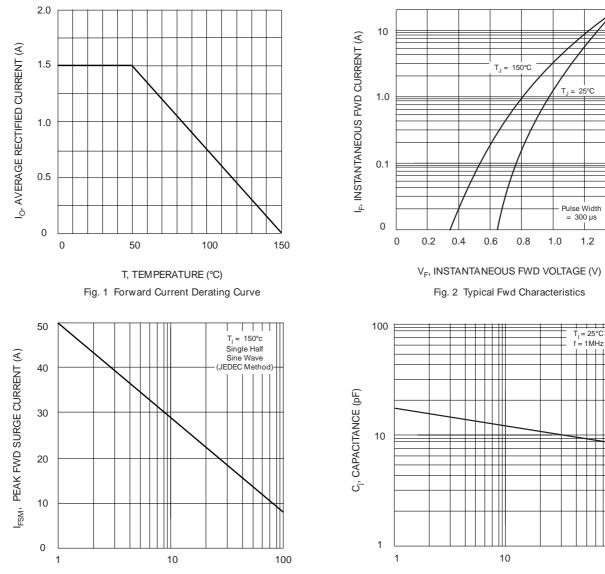
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBP 150G	KBP 151G	KBP 152G	KBP 154G	KBP 156G	KBP 158G	KBP 1510G	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 $@T_A = 50^{\circ}C$	lo				1.5				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50						А	
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 $@T_A = 125^{\circ}C$	IDM.				5.0 500				μA
Rating for Fusing (t<8.3ms)	l <sup>2</sup> t	10						A <sup>2</sup> 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	Тj, Тsтg	-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 12mm<sup>2</sup> copper pad.

Tel : 02-25651052



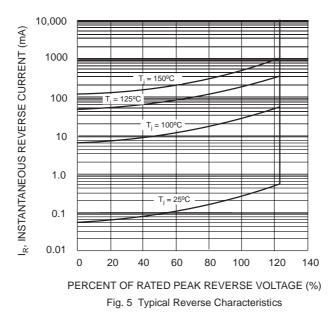
NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Fwd Surge Current



1.4

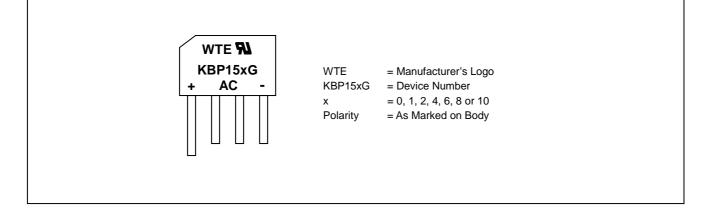
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# MARKING INFORMATION



## **PACKAGING INFORMATION**

### BULK

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
393 x 35 x 6	25	400 x 140 x 76	1,000	415 x 300 x 185	4,000	12.0

Note: 1. Anti-static tube, water clear color.

## **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
KBP150G	SIL Bridge	25 Units/Tube
KBP151G	SIL Bridge	25 Units/Tube
KBP152G	SIL Bridge	25 Units/Tube
KBP154G	SIL Bridge	25 Units/Tube
KBP156G	SIL Bridge	25 Units/Tube
KBP158G	SIL Bridge	25 Units/Tube
KBP1510G	SIL Bridge	25 Units/Tube

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, KBP150G-LF.

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