



KBP150G – KBP1510G



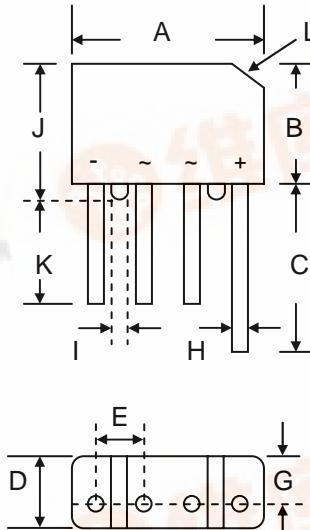
1.5A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

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**



KBP1PM		
Dim	Min	Max
A	14.22	15.24
B	10.67	11.68
C	15.20	—
D	4.30	4.70
E	3.60	4.10
G	2.75	3.15
H	0.76	0.86
I	1.52	—
J	11.68	12.70
K	12.7	—
L	3.2 x 45° Typical	

All Dimensions in mm

Maximum Ratings and Electrical Characteristics $\text{@T}_A=25^\circ\text{C}$ 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	V _{RRM}								
Working Peak Reverse Voltage	V _{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current $\text{@T}_A = 50^\circ\text{C}$	I _o				1.5				A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}				50				A
Forward Voltage per leg $\text{@I}_F = 1.5\text{A}$	V _{FM}				1.3				V
Peak Reverse Current $\text{@T}_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage $\text{@T}_A = 125^\circ\text{C}$	I _{RM}				5.0				μA
Rating for Fusing ($t < 8.3\text{ms}$)	I ² _t				10				A^2s
Typical Junction Capacitance per leg (Note 1)	C _j				15				pF
Typical Thermal Resistance per leg (Note 2)	R _{θJA} R _{θJL}				40				$^\circ\text{C/W}$
Operating and Storage Temperature Range	T _j , T _{STG}				-55 to +150				$^\circ\text{C}$

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.

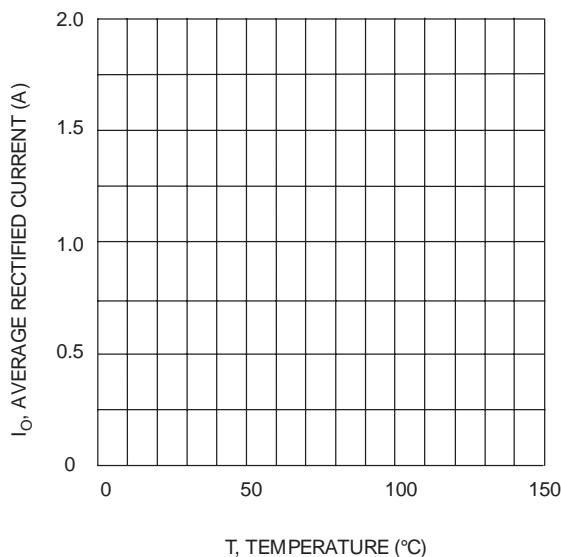


Fig. 1 Forward Current Derating Curve

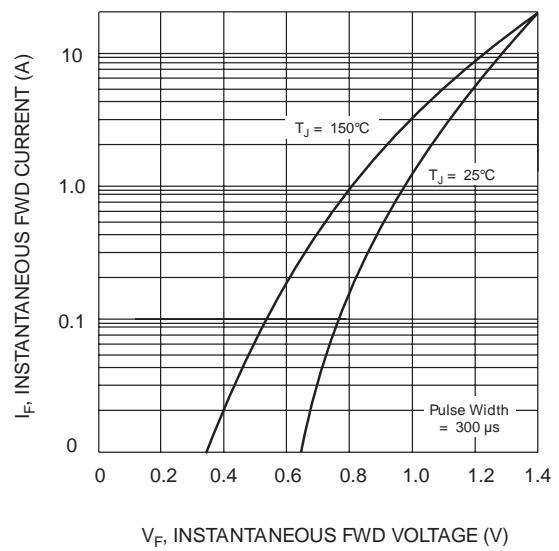


Fig. 2 Typical Fwd Characteristics

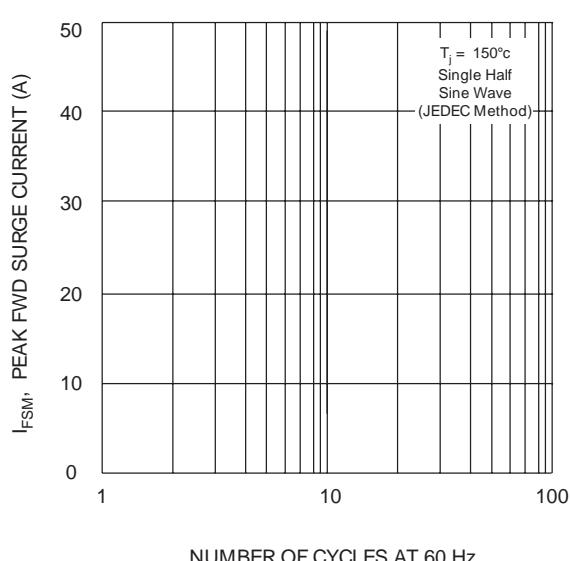


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

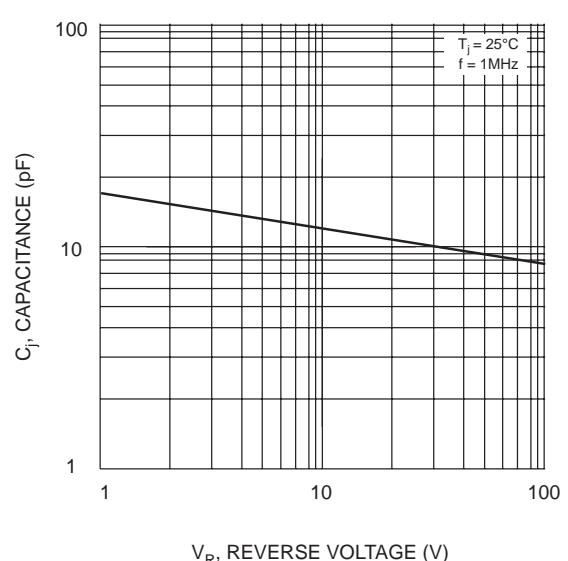


Fig. 4 Typical Junction Capacitance

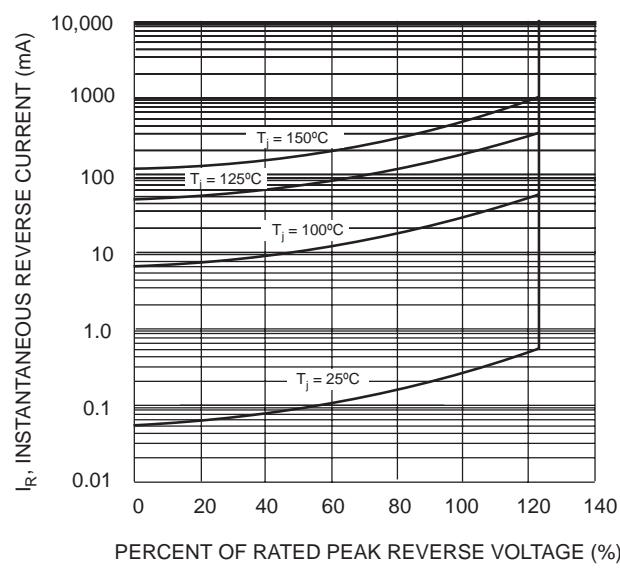
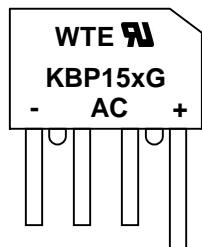


Fig. 5 Typical Reverse Characteristics

MARKING INFORMATION



WTE = Manufacturer's Logo
KBP15xG = Device Number
x = 0, 1, 2, 4, 6, 8 or 10
Polarity = As Marked on Body

PACKAGING INFORMATION

BULK

Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (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
KBP150G	SIL Bridge	600 Units/Box
KBP151G	SIL Bridge	600 Units/Box
KBP152G	SIL Bridge	600 Units/Box
KBP154G	SIL Bridge	600 Units/Box
KBP156G	SIL Bridge	600 Units/Box
KBP158G	SIL Bridge	600 Units/Box
KBP1510G	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, KBP150G-LF.**

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