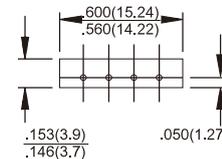
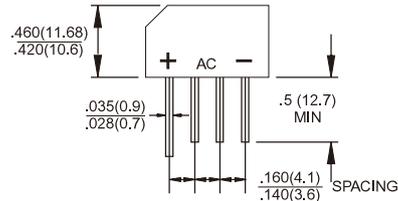


# KBP151G - KBP157G

Single Phase 1.5 AMPS.  
Glass Passivated Bridge Rectifiers

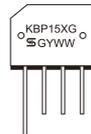


## KBP



Dimensions in inches and (millimeters)

### Marking Diagram



KBP15XG = Specific Device Code  
G = Green Compound  
Y = Year  
WW = Work Week

## Features

- ✧ UL Recognized File # E-326243
- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction
- ✧ High surge current capability
- ✧ High temperature soldering guaranteed:  
260 °C / 10 seconds at 5 lbs., ( 2.3 kg )  
tension
- ✧ Small size, simple installation
- ✧ Green compound with suffix "G" on packing  
code & prefix "G" on datecode.

## Mechanical Data

- ✧ Case : Molded Plastic
- Terminal : Leads solderable per MIL-STD-202
- ✧ Method 208
- ✧ Weight:1.5 grams

## Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

Type Number	Symbol	KBP 151G	KBP 152G	KBP 153G	KBP 154G	KBP 155G	KBP 156G	KBP 157G	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ <sub>T<sub>A</sub></sub> = 50 °C	I <sub>F(AV)</sub>	1.5							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	I <sub>FSM</sub>	50							A
Maximum Instantaneous Forward Voltage @ 1.5A	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current @ T <sub>A</sub> =25°C at Rated DC Blocking Voltage (Note 1) @ T <sub>A</sub> =125°C	I <sub>R</sub>	10 500							uA uA
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub> R <sub>θJL</sub>	40 13							°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

Note: 1. Pulse Test with PW=300 usec, 1% Duty Cycle  
2. Mounted on P.C.B. with 0.4" x 0.4" (10mm x 10mm) Copper Pads.

## RATINGS AND CHARACTERISTIC CURVES (KBP151G THRU KBP157G)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

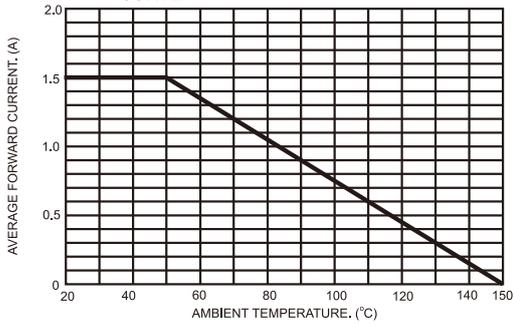


FIG.2- TYPICAL REVERSE CHARACTERISTICS

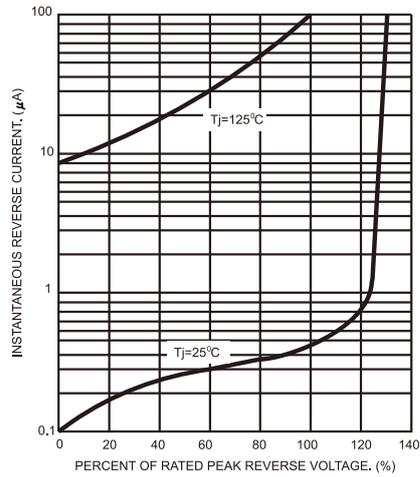


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

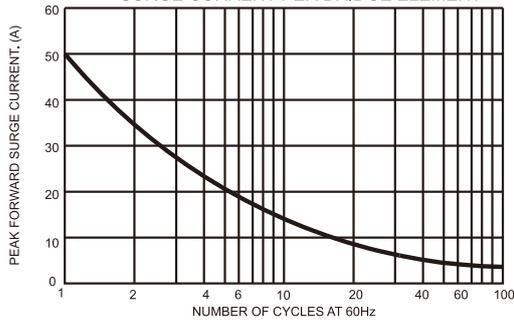


FIG.4- TYPICAL JUNCTION CAPACITANCE

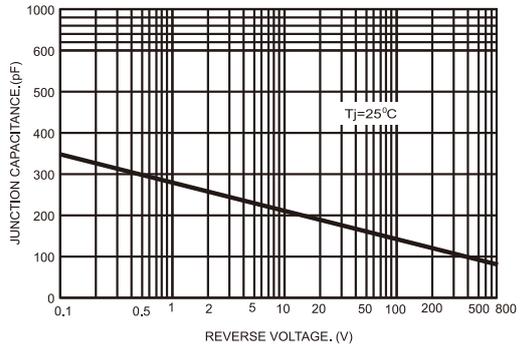


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

