

KBP151G - KBP157G

Single Phase 1.5AMPS. Glass Passivated Bridge Rectifiers





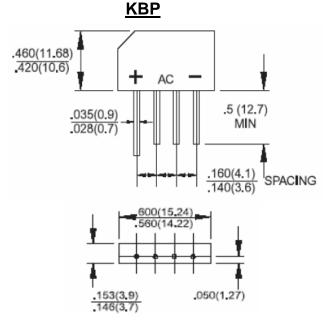


Features

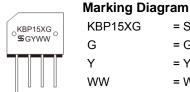
- UL Recoganized File #E-326243
- \diamond Glass passivated junction
- \diamond Ideal for printed circuit board
- Reliable low cost construction
- \diamondsuit High surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs.,(2.3kg) tension
- Small size, simple installation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

Mechanical Data

- Case: Molded plastic body
- Terminals: Leads solderable per MIL-STD-202, Method 208
- Weight: 1.5 grams



Dimensions in inches and (millimeters)



KBP15XG = Specific Device Code

= Green Compound = Year

WW = Work Week

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%

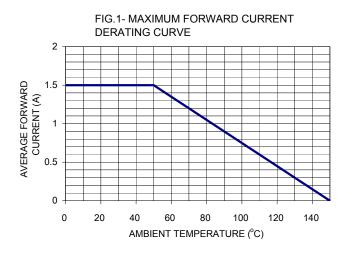
Tor Capacitive load, defate current by 2070									
Type Number	Symbol	KBP 151G	KBP 152G	KBP 153G	KBP 154G	KBP 155G	KBP 156G	KBP 157G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current $@T_A = 50^{\circ}C$	I _{F(AV)}	1.5							Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							Α
Maximum Instantaneous Forward Voltage (Note 1) @1.5A	V _F	1.1						V	
Maximum DC Reverse Current @T _A =25°C					10				uA
at Rated DC Blocking Voltage	I _R	500							uA
Typical Thermal Resistance (Note 2)	$R_{ heta JA} \ R_{ heta JL}$	40 13						°C/W	
Operating Temperature Range	TJ	- 55 to + 150						οС	
Storage Temperature Range	T_{STG}	- 55 to + 150						οС	

Note 1: Pulse Test with PW=300u sec, 1% Duty Cycle

Note 2: Mounted on P.C.B. with 0.4" x 0.4"(10 x 10mm) Copper Pads.



RATINGS AND CHARACTERISTIC CURVES (KBP151G THRU KBP157G)



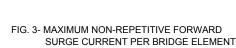
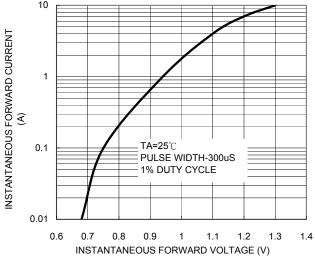




FIG. 5- TYPICAL FORWARD CHARACTERISRICS PER BRIDGE ELEMENT 10



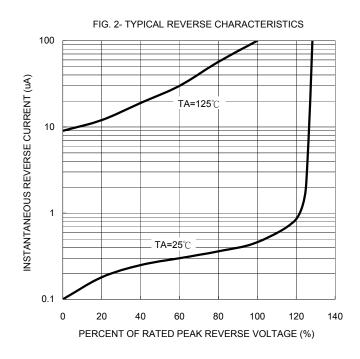
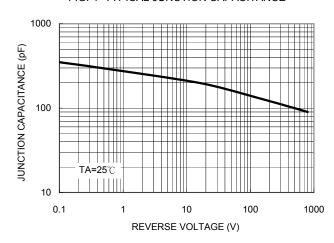


FIG. 4- TYPICAL JUNCTION CAPACITANCE



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Taiwan Semiconductor:

<u>KBP151G KBP152G KBP153G KBP154G KBP155G KBP156G KBP157G KBP156G C2 KBP157G C2</u>