

UL Recoganized File #E-326243

Glass passivated junction

Ideal for printed circuit board

High case dielectric strength

Typical IR less than 0.1uA

High surge current capability

code & prefix "G" on datecode

flammability Classification 94V-0

High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs.,(2.3kg) tension Green compound with suffix "G" on packing

Plastic material has Underwriters laboratory

## KBP301G - KBP307G

Single Phase 3.0AMPS. Glass Passivated Bridge Rectifiers

# COMPLIANCE

Features

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# $\frac{.460(11.68)}{.420(10.6)} + AC - \frac{.5(12.7)}{.028(0.7)} + AC - \frac{.5(12.7)}{.5(12.7)} MIN + \frac{.160(4.1)}{.140(3.6)} SPACING + \frac{.153(3.9)}{.146(3.7)} .050(1.27)$

### \_\_\_\_\_

♦ Case: Molded plastic body

Mechanical Data

- Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208
- ♦ Weight: 1.54 grams (0.055 ounce)
- ♦ Mounting position : Any



G

Y

ww

**Dimensions in inches and (millimeters)** 

- = Specific Device Code
- = Green Compound
- = Year
- = Work Week

### **Maximum Ratings and Electrical Characteristics**

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

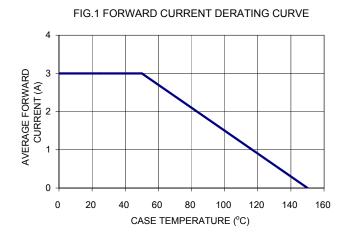
Type Number	Symbol	KBP 301G	KBP 302G	KBP 303G	KBP 304G	KBP 305G	KBP 306G	KBP 307G	Unit
laximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
laximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
laximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
laximum Average Forward Rectified Current @TA=50 $^\circ\!\!\mathbb{C}$	I <sub>(AV)</sub>	3							А
eak Forward Surge Current, 8.3 ms Single Half Sine- ave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	80							А
ating of fusing ( t<8.3ms)	I <sup>2</sup> T	26.5							A <sup>2</sup> S
laximum Instantaneous Forward Voltage @ 3 A	V <sub>F</sub>	1.1						V	
Iaximum DC Reverse Current $@T_A=25^{\circ}C$ t Rated DC Block Voltage $@T_A=125^{\circ}C$	I <sub>R</sub>	10 500						uA	
ypical Junction Capacitance per leg (Note 1)	Cj				215				pF
ypical Thermal Resistance (Note 2)	R <sub>θjA</sub> R <sub>θjL</sub>	30 11						<sup>o</sup> C/W	
perating Temperature Range	TJ	- 55 to + 150						°C	
torage Temperature Range	T <sub>STG</sub>	- 55 to + 150						°C	
	T <sub>STG</sub>								

Note 1 : Measured at 1MHz and applied Reverse bias of 4.0V DC

Note 2 : Unit mount on P.C.B. 0.4" x 0.4" (10mmx10mm) Copper pads, 0.375"(9.5mm) lead length



### RATINGS AND CHARACTERISTIC CURVES (KBP301G THRU KBP307G)



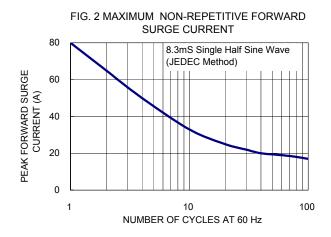


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

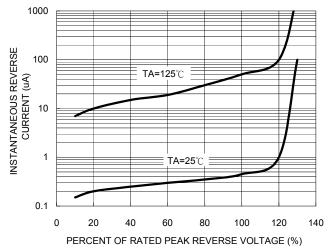


FIG. 5 TYPICAL JUNCTION CAPACITANCE

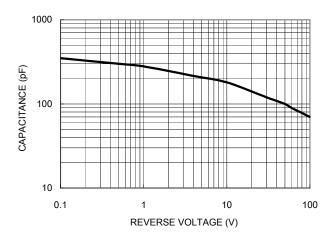
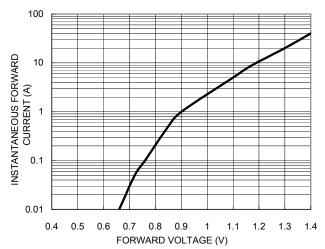


FIG. 4 TYPICAL FORWARD CHARACTERISRICS



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Taiwan Semiconductor:KBP302GKBP303G