

Single Phase 3.0AMPS. Glass Passivated Bridge Rectifiers







Features

- ♦ UL Recoganized File #E-326243
- ♦ Glass passivated junction
- ♦ Ideal for printed circuit board
- ♦ High case dielectric strength
- Plastic material has Underwriters laboratory flammability Classification 94V-0
- High surge current capability
- → High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs.,(2.3kg) tension
- Green compound with suffix "G" on packing code & prefix "G" on datecode

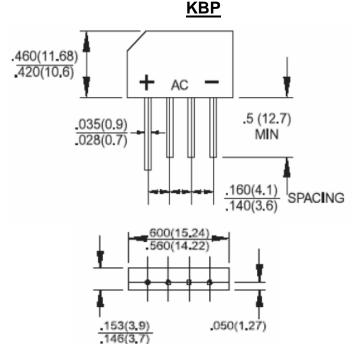
Mechanical Data

♦ Case: Molded plastic body

 Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208

♦ Weight: 1.54 grams (0.055 ounce)

♦ Mounting position : Any



Dimensions in inches and (millimeters)

aKBP30XG a SGYWW

Marking Diagram

KBP30XG = Specific Device Code G = Green Compound

Y = Year WW = 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%

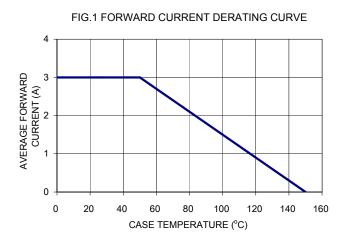
Type Number	Symbol	KBP 301G	KBP 302G	KBP 303G	KBP 304G	KBP 305G	KBP 306G	KBP 307G	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TA=50 $^\circ\mathrm{C}$	I _(AV)	3							Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	80							Α
Rating of fusing (t<8.3ms)	I ² T	26.5						A ² S	
Maximum Instantaneous Forward Voltage @ 3 A	V _F	1.1						V	
	I _R	10 500							uA
Typical Junction Capacitance per leg (Note 1)	Cj	215						pF	
Typical Thermal Resistance (Note 2)	$R_{ hetajA}$ $R_{ hetajL}$	30 11						°C/W	
Operating Temperature Range	T_J	- 55 to + 150						οС	
Storage Temperature Range	T_{STG}	- 55 to + 150						οС	

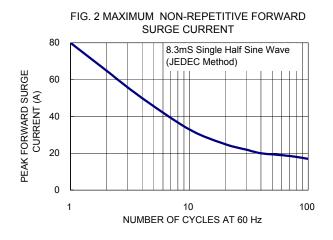
Note 1: Measured at 1MHz and applied Reverse bias of 4.0V DC

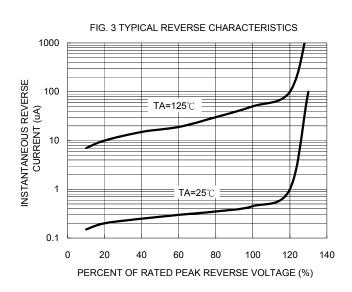
Note 2 : Unit mount on P.C.B. 0.4" x 0.4" (10mmx10mm) Copper pads, 0.375"(9.5mm) lead length

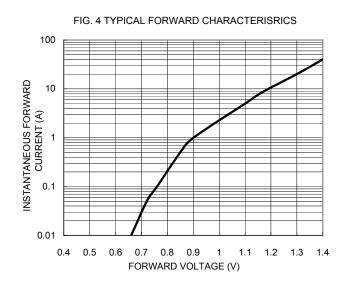


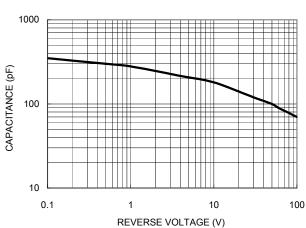
RATINGS AND CHARACTERISTIC CURVES (KBP301G THRU KBP307G)











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Taiwan Semiconductor: KBP301G KBP305G