

KBU1001G - KBU1007G

Single Phase 10.0AMPS. Glass Passivated Bridge Rectifiers





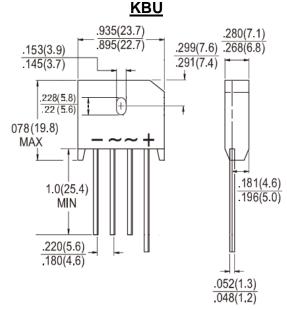


Features

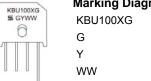
- UL Recoganized File # E-326243
- \diamond Ideal for printed circuit board
- High case dielectric strength
- Plastic material has Underwriters laboratory flammability Classification 94V-0
- Typical IR less than 0.1uA
- \diamond High surge current capability
- High temperature soldering guaranteed: 260 $^{\circ}$ 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, Leads solderable per MIL-STD-202, Method 208
- Weight: 7.2 grams
- Mounting Torque: 5 in lbs max.



Dimensions in inches and (millimeters)



Marking Diagram

= Specific Device Code = Green Compound = Year = 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%

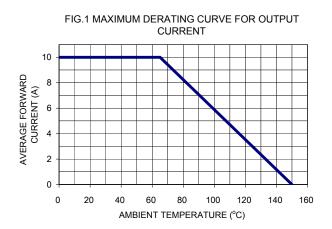
Type Number	Symbol	KBU 1001G	KBU 1002G	KBU 1003G	KBU 1004G	KBU 1005G	KBU 1006G	KBU 1007G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current $@T_A=65^{\circ}\mathbb{C}$	I _{F(AV)}	10					Α		
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200						Α	
Rating of fusing (t<8.3mS)	I ² t	166						A ² S	
Maximum Instantaneous Forward Voltage (Note 1) @ 5 A @ 10 A	V _F				1.0 1.1				٧
$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$	I _R	5 500						uA	
Typical Junction Capacitance per leg (Note 2)	Cj	400						pF	
Typical Thermal Resistance	$R_{ heta JA} \ R_{ heta JC}$	25 2.2					°C/W		
Operating Temperature Range	T _J	- 55 to + 150					οС		
Storage Temperature Range	T _{STG}	- 55 to + 150						οС	

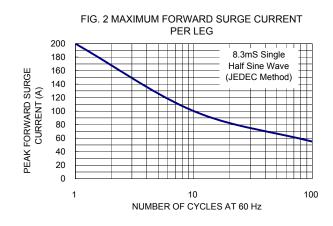
Note 1 : Pulse Test with PW=300 usec, 1% Duty Cycle.

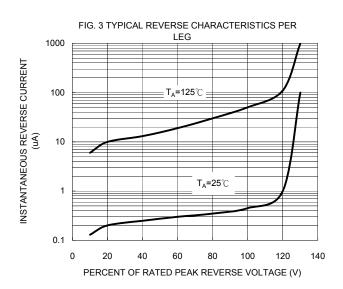
Note 2: Measured at 1MHz and applied Reverse bias of 4.0V D.C.



RATINGS AND CHARACTERISTIC CURVES (KBU1001G THRU KBU1007G)







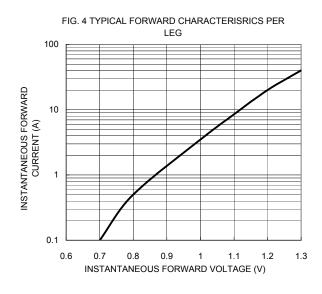




FIG. 5 TYPICAL JUNCTION CAPACITANCE

