



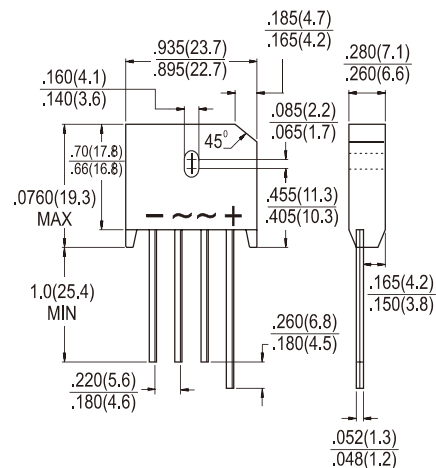
Features

- ✧ UL Recognized File # E-326243
- ✧ Ideal for printed circuit board
- ✧ High case dielectric strength
- ✧ Plastic material has Underwriters laboratory flammability Classification 94V-0
- ✧ Typical IR less than 0.1uA
- ✧ High surge current capability
- ✧ High temperature soldering guaranteed:
260°C / 10 seconds at 5 lbs., (2.3 kg) tension
- ✧ Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

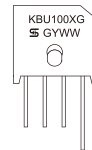
- ✧ Case : Molded plastic body
- ✧ Terminal : Pure tin plated , Lead free. Leads solderable per MIL-STD-202 Method 208
- ✧ Weight : 8.0 grams
- ✧ Mounting Torque : 5 in lbs max.

KBU1001G - KBU1007G
Single Phase 10.0 AMPS.
Glass Passivated Bridge Rectifiers
KBU



Dimension in inches and (millimeter)

Marking Diagram



KBU100XG = Specific Device Code
G = Green Compound
Y = 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%

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°C	I _{F(AV)}	10.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	200							A
Rating of fusing (t < 8.3mS)	I ² t	166.0							A ² S
Maximum Instantaneous Forward Voltage @ 5.0A	V _F	1.0							V
@10.0A		1.1							
Maximum DC Reverse Current @ TA=25°C	I _R	5.0							uA
at Rated DC Blocking Voltage @ TA=125°C (Note 1)		500							
Typical Junction Capacitance per leg (Note 3)	C _j	400							pF
Typical Thermal Resistance (Note 2)	R _{θJA}	25							°C/W
	R _{θJC}	2.2							
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

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

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2. Unit case mounted on 4" x 6" x 0.25" Al plate heat sink.

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3. Measured at 1MHz and applied Reverse bias of 4.0V DC.

RATINGS AND CHARACTERISTIC CURVES (KBU1001G THRU KBU1007G)

FIG 1 Maximum Derating Curve for Output Current

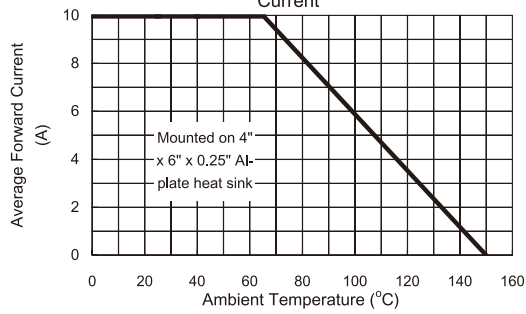


FIG 2 Maximum Forward Surge Current per Leg

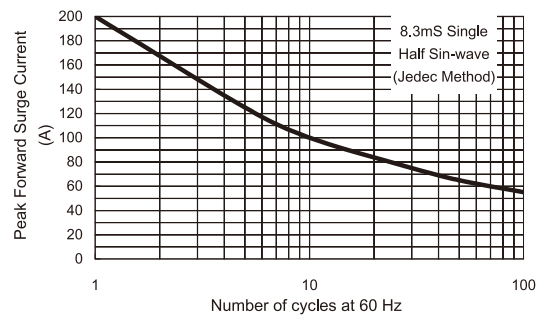


FIG 3 Typical Reverse Characteristics per Leg

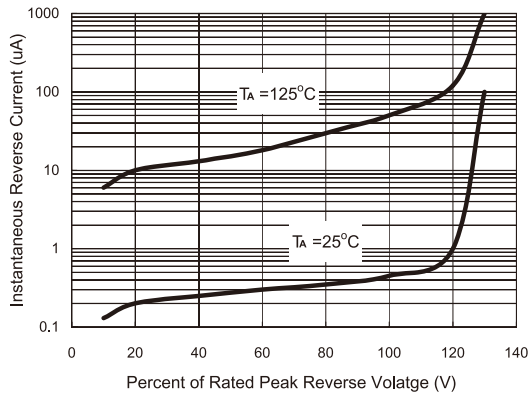


FIG 4 Typical Forward Characteristics per Leg.

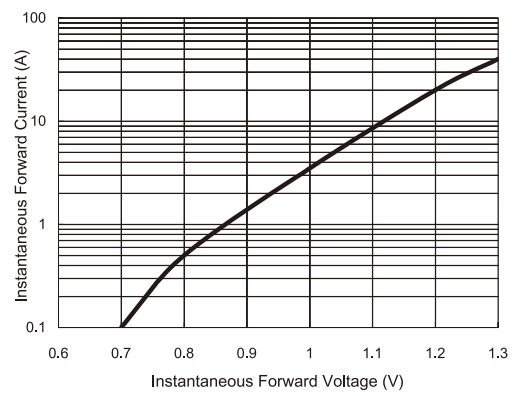


FIG 5 Typical Junction Capacitance

