



KBU1001G THRU KBU1007G

Single Phase 10 AMPS. Glass Passivated Bridge Rectifiers

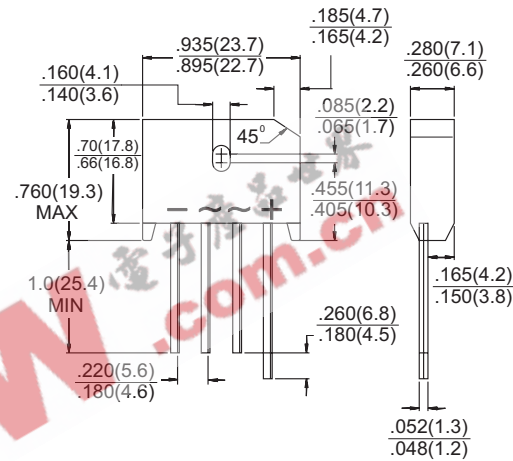


Voltage Range
50 to 1000 Volts
Current
10.0 Amperes

Features

- ✦ UL Recognized File # E-96005
- ✦ Glass passivated junction
- ✦ Ideal for printed circuit board
- ✦ Reliable low cost construction
- ✦ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ✦ Surge overload rating to 200 amperes peak
- ✦ High temperature soldering guaranteed: 260°C / 10 seconds / .375", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ✦ Weight: 0.3 ounce, 8.0 grams
- ✦ Mounting torque: 5 in. lb. Max.

KBU



Dimensions in inches and (millimeters)

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	KBU	KBU	KBU	KBU	KBU	KBU	Units
		1001G	1002G	1003G	1004G	1005G	1006G	1007G	
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 @ $T_A = 45^\circ\text{C}$	$I_{(AV)}$	10.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	200							A
Maximum Instantaneous Forward Voltage @ 10.0A	V_F	1.1							V
Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$	I_R	5.0 500							μA μA
Typical Thermal Resistance (Note)	$R_{\theta JC}$	2.2							$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

Note: Thermal Resistance from Junction to Case with Device Mounted on 4" x 6" x 0.25" Al-Plate Heatsink.



RATINGS AND CHARACTERISTIC CURVES (KBU1001G THRU KBU1007G)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

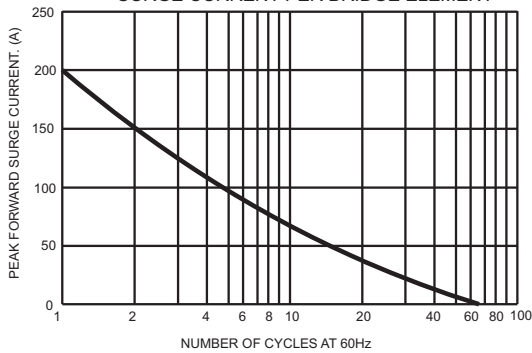


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

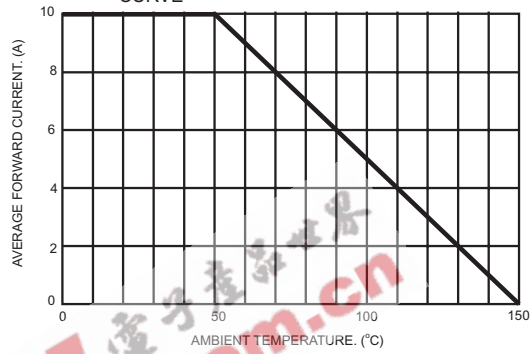


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

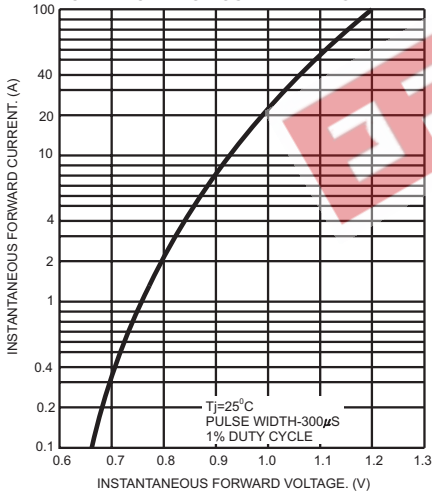


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

