



# KBU1000G THRU KBU1010G

**SINGLE PHASE 10 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS**



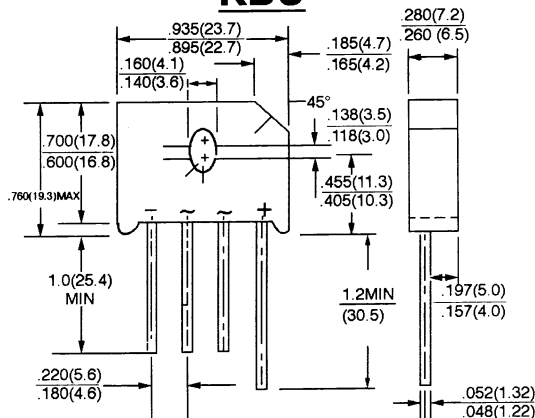
## FEATURES

- \* High Surge Current Capability
- \* Ideal for printed circuit board
- \* Reliable low cost construction technique results in inexpensive product

## VOLTAGE RANGE

50 to 1000 Volts  
CURRENT  
10.0 Amperes

## KBU



## 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	SYMBOLS	KBU 1000G	KBU 1001G	KBU 1002G	KBU 1004G	KBU 1006G	KBU 1008G	KBU 1010G	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum D. C Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_C = 75^\circ C^{(1,2)}$	$I_{F(AV)}$	10.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	175							A
Maximum Forward Voltage Drop per element @ 5.0A	$V_F$	1.10							V
Maximum Reverse Current at Rated @ $T_A = 25^\circ C$ D. C. Blocking Voltage per element @ $T_A = 100^\circ C$	$I_R$	10 500							$\mu A$ $\mu A$
Typical thermal resistance per leg (NOTE 2)	$R_{\theta JC}$	2.2							$^\circ C/W$
Operating Temperature Range	$T_J$	-55 to +150							$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^\circ C$

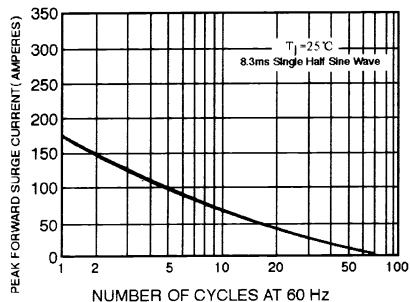
### NOTE:

(1) Recommended mounted position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw

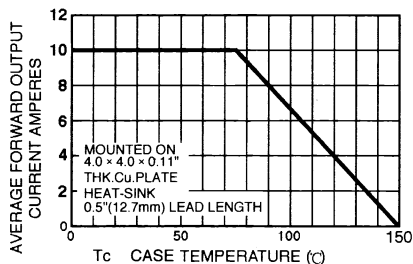
(2) Units mounted on a 4.0 x 4.0 x 0.11" thick (10.2 x 10.2 x 0.3cm) Cu. Plate heatsink

## RATINGS AND CHARACTERISTIC CURVES ( KBU1000G THRU KBU1010G )

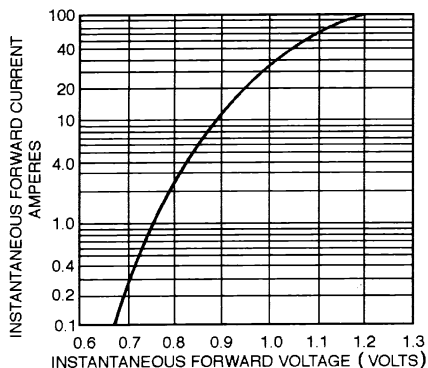
**FIG.1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT - PER ELEMENT**



**FIG.2 - TYPICAL FORWARD OUTPUT CURRENT DERATING CURVE**



**FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS - PER ELEMENT**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS - PER ELEMENT**

