



KBU800G THRU KBU810G

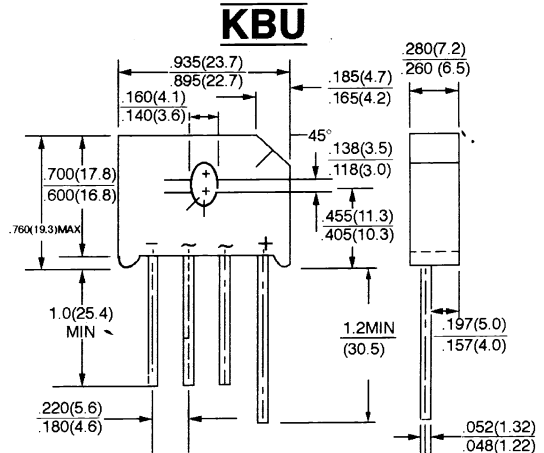
SINGLE PHASE 8.0 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS



FEATURES

- * Ideal for printed circuit board
- * Reliable low cost construction
- * Plastic material has Underwriters Laboratory flammability classification 94V.0
- * Surge overloab rating to 200 Amperes peak.

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
8.0 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating. at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

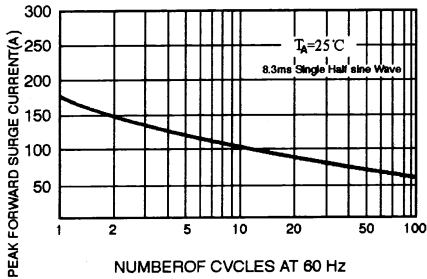
For capacitive load, derate current by 20%

TYPE NUMBER	SYMBOLS	KBU 800G	KBU 801G	KBU 802G	KBU 804G	KBU 806G	KBU 808G	KBU 810G	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 @ $T_C = 90^{\circ}C^{(1)(3)}$ $T_A = 45^{\circ}C^{(2)}$	$I_{F(AV)}$	8.0							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 @ 4.0A	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							μA μA
Typical thermal resistance per leg (NOTE 2) (NOTE 3)	$R_{\theta JA}$ $R_{\theta JC}$	18 3.0							$^{\circ}C/W$
Operating Temperature Range	T_J	- 55 to + 150							$^{\circ}C$
Storage Temperature Range	T_{STG}	- 55 to + 150							$^{\circ}C$

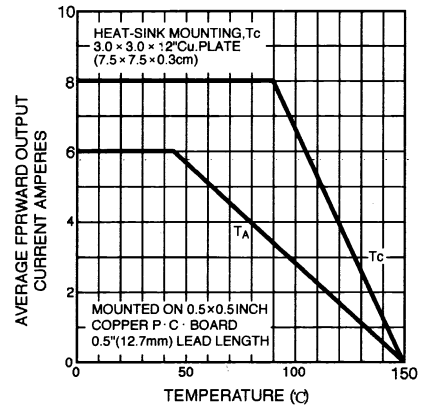
- NOTE:
- (1) Recommended mounted position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw
 - (2) Units mounted in free air, no heatsink, P. C. B. 0.375"(9.5mm) lead length with 0.5 x 0.5" (12 x 12mm) copper pads
 - (3) Units mounted on a 3.0 x 3.0 x 0.11" (7.5 x 7.5 x 0.3cm) Cu. Plate heatsink

RATINGS AND CHARACTERISTIC CURVES (KBU800G THRU KBU810G)

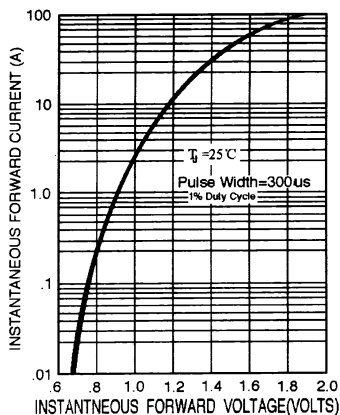
**FIG. 1 – MAXIMUM NON – REPETITIVE
FORWARD SURGE CURRENT – PER ELEMENT**



**FIG. 2 – TYPICAL FORWARD OUTPUT
DERATING CURVE**



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



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

