

KBU1000 THRU KBU1010

SINGLE PHASE 10 AMPS SILICON BRIDGE RECTIFIERS

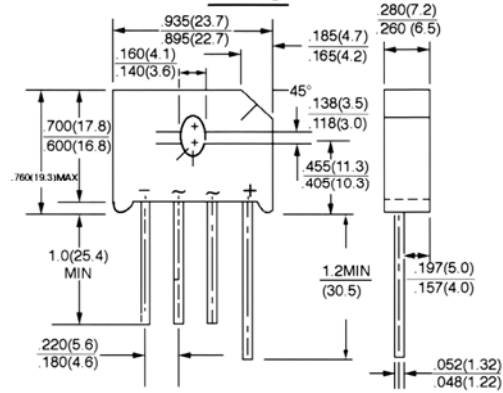


FEATURES

- * 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



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	SYMBOLS	KBU 1000	KBU 1001	KBU 1002	KBU 1004	KBU 1006	KBU 1008	KBU 1010	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 @ $T_C = 75^\circ\text{C}$ ^(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}	250							A
Maximum Forward Voltage Drop per element @ 5.0A	V_F	1.10							V
Maximum Reverse Current at Rated @ $T_A = 25^\circ\text{C}$ D. C. Blocking Voltage per element @ $T_A = 100^\circ\text{C}$	I_R	10 500							μA μA
Typical thermal resistance per leg(NOTE 2)	$R_{\theta JC}$	2.2							$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	-55 to +125							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

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) Al. Plate heatsink

HV COMPONENT ASSOCIATES

P.O. Box 848 Farmingdale, NJ 07727
Tel: 732.938.4499 FAX: 732.938.4451
www.hvca.com



RATINGS AND CHARACTERISTIC CURVES (KBU1000 THRU KBU1010)

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

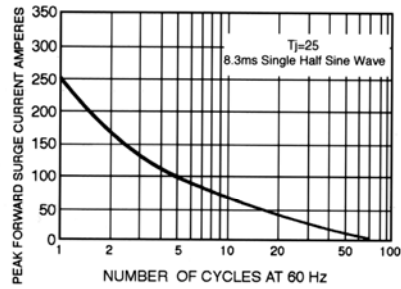


FIG. 2 - TYPICAL FORWARD OUTPUT CURRENT DERATING CURVE

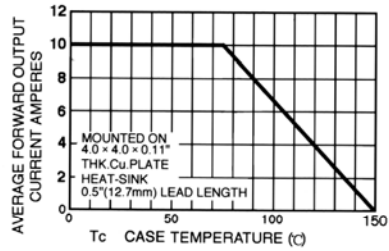


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD PER BRIDGE ELEMENT

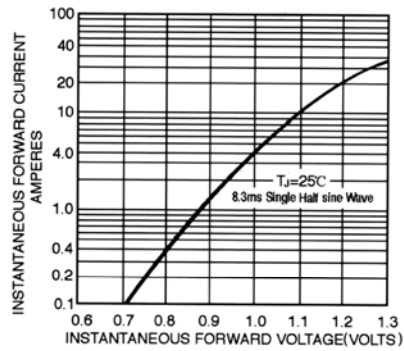
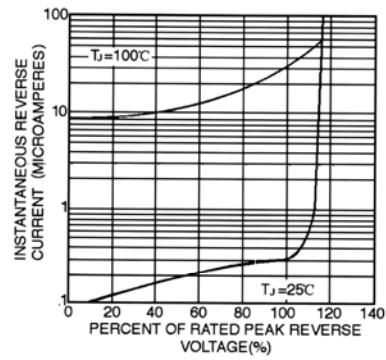


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS - PER ELEMENT



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