

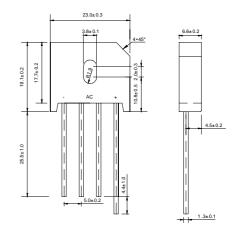
KBU4A-KBU4M

Silicon Bridge Rectifiers

VOLTAGE RANGE: 50 --- 1000 V

CURRENT: 4.0 A

KBU



Dimensions in millimeters

Features

- Surge overload rating to 150 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		KBU 4A	KBU 4B	KBU 4D	KBU 4G	KBU 4J	KBU 4K	KBU 4M	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}		70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward output current @T _A =50℃	I _{F(AV)}	4.0							А
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load	I _{FSM}	150.0							А
Maximum instantaneous forw ard voltage ② 2.0 A	V _F	1.0							V
Maximum reverse current $@T_A = 25\%$ at rated DC blocking voltage $@T_A = 100\%$	I _R	10.0 1.0							μA mA
Operating junction temperature range	T_J	- 55 + 125							$^{\circ}$
Storage temperature range	T _{STG}	- 55 + 150							$^{\circ}$



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Ratings AND Charactieristic Curves

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

PEAK FORWARD SURGE CURRENT, **AMPERES** MOUNTES ON 4:4 INCH CPUFER PC BOARD 0.5"(12.7mm) Lead length 50

INSTANTANEOUS FORWARD CURRENT, A

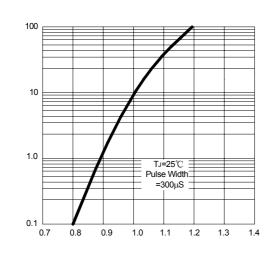
AMPERES

AMBIENT TEMPERATURE, °C

FIG.3 - TYPICAL FORWARD CHARACTERISTIC

100

150



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG.2 - MAXIMUM FORWARD SURGE CURRENT

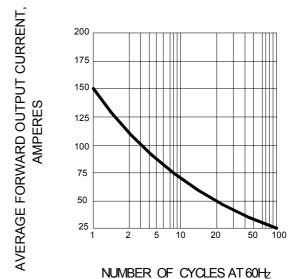
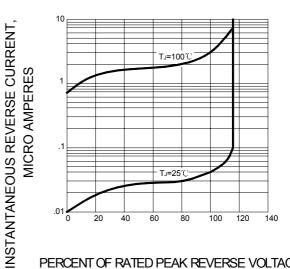


FIG.4 - TYPICAL REVERSE CHARACTERISTIC



PERCENT OF RATED PEAK REVERSE VOLTAGE

FIG.5 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT



