

KBU6A THRU KBU6M

SINGLE PHASE SILICON BRIDGE RECTIFIER

VOLTAGE: 50 TO 1000V

CURRENT: 6.0A

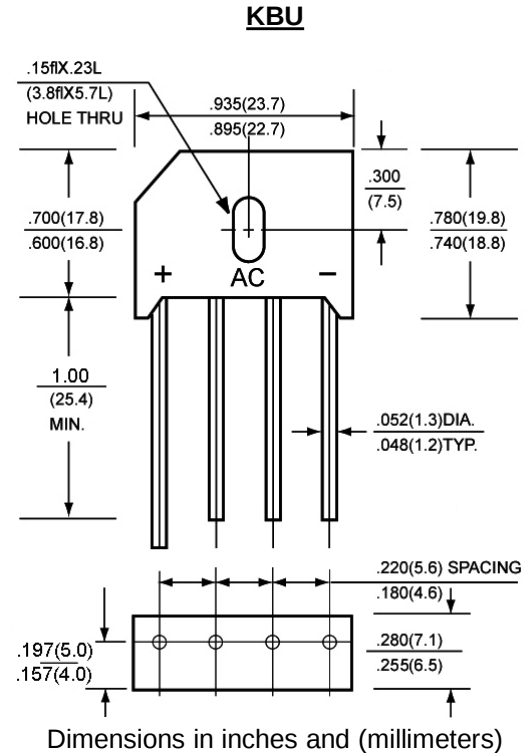


FEATURE

Ideal for printed circuit board
Surge overload rating: 250 A peak
High case dielectric strength

MECHANICAL DATA

Terminal: Plated leads solderable per
MIL-STD 202E, method 208C
Case: UL-94 Class V-0 recognized Flame
Retardant Epoxy
Polarity: Polarity symbol marked on body
Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated,
for capacitive load, derate current by 20%)

	SYMBOL	KBU 6A	KBU 6B	KBU 6D	KBU 6G	KBU 6J	KBU 6K	KBU 6M	units
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 at T _c = 40°C	I _{f(av)}	6.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	250.0							A
Maximum Instantaneous Forward Voltage at forward current 3.0A DC	V _f	1.1							V
Maximum DC Reverse Current Ta = 25°C at rated DC blocking voltage Ta = 100°C	I _r	10.0 500							μA μA
Operating Temperature Range	T _j	-55 to +150							°C
Storage and Operation Junction Temperature	T _{stg}	-55 to +150							°C

RATINGS AND CHARACTERISTIC CURVES KBU6A THRU KBU6M

FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

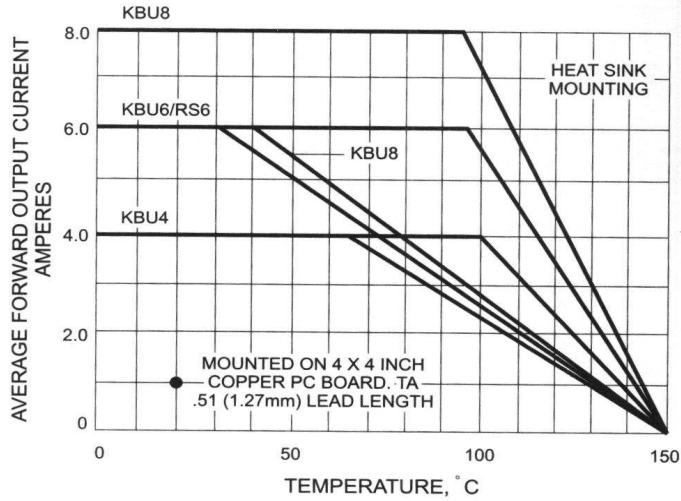


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

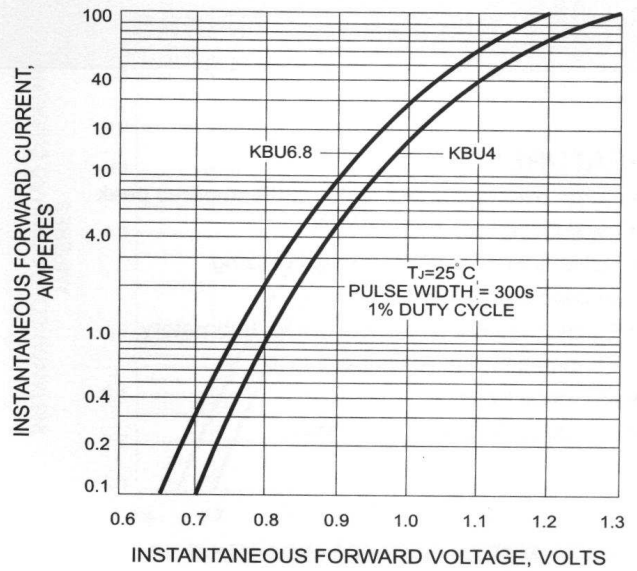


FIG. 3 - MAXIMUM NON-RETETITIVE PEAK FORWARD SURGE CURRENT

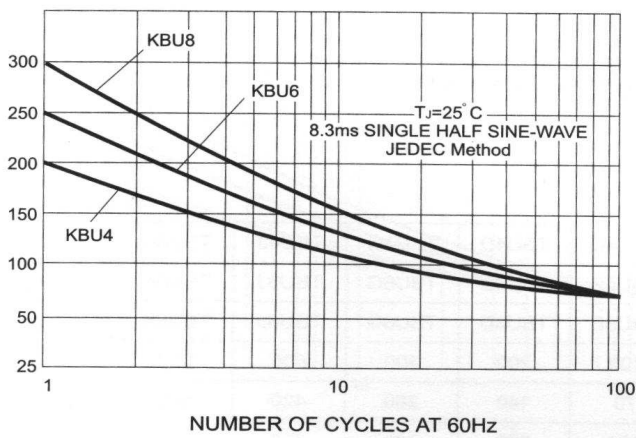


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

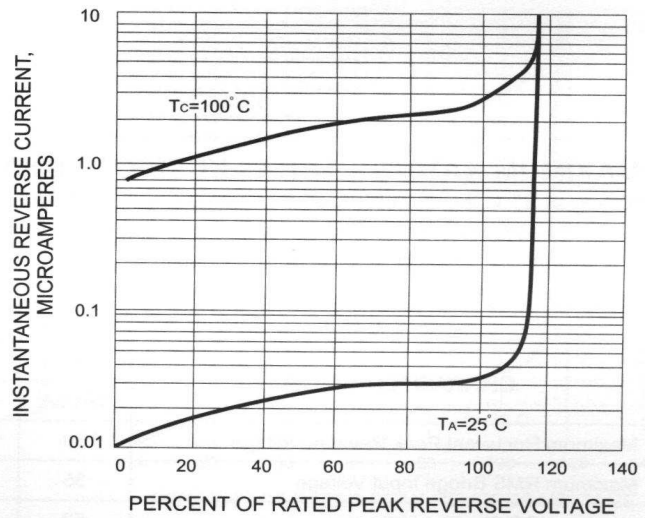


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT

