KBU8A THRU KBU8M

SINGLE PHASE SILICON BRIDGE RECTIFIER

VOLTAGE: 50 to 1000V **CURRENT: 8.0A**

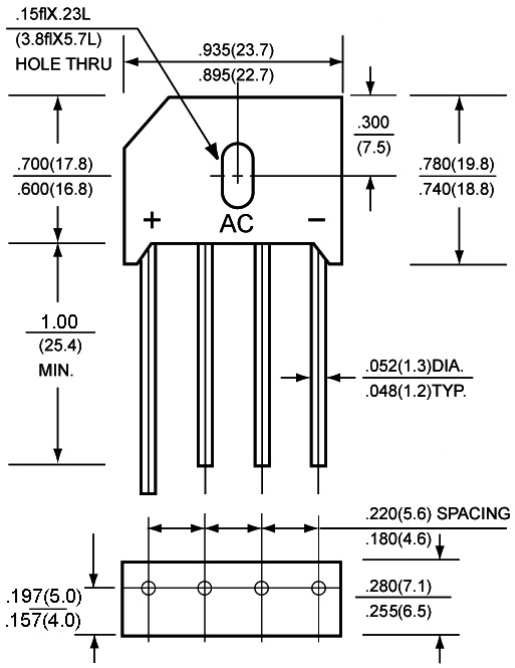
FEATURE

Ideal for printed circuit board
Surge overload rating:300 A peak
High case dielectric strength

MECHANICAL DATA

Terminal: Plated leads solderable per J-STD-002
Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: Polarity symbol marked on body
Mounting position: any

KBU



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	KBU 8A	KBU 8B	KBU 8D	KBU 8G	KBU 8J	KBU 8K	KBU 8M	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Tc =95°C	If(av)	8.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	300.0							A
Maximum Instantaneous Forward Voltage at forward current 4.0A DC	Vf	1.1							V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	Ir	10.0 300							μA μA
Operating Temperature Range	Tj	-55 to +150							°C
Storage and Operation Junction Temperature	Tstg	-55 to +150							°C

FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

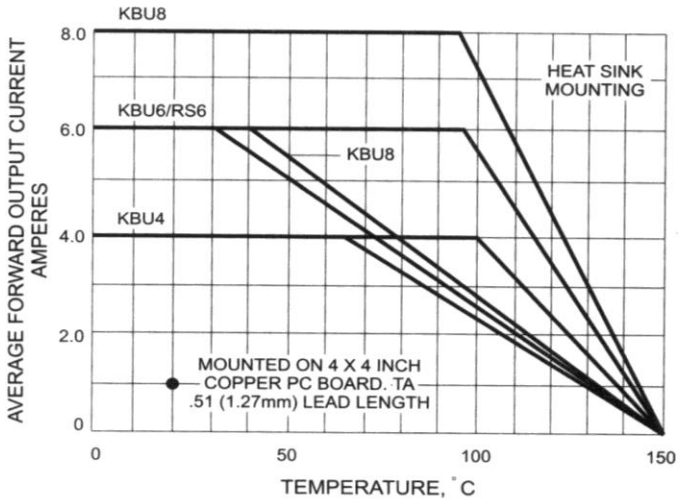


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

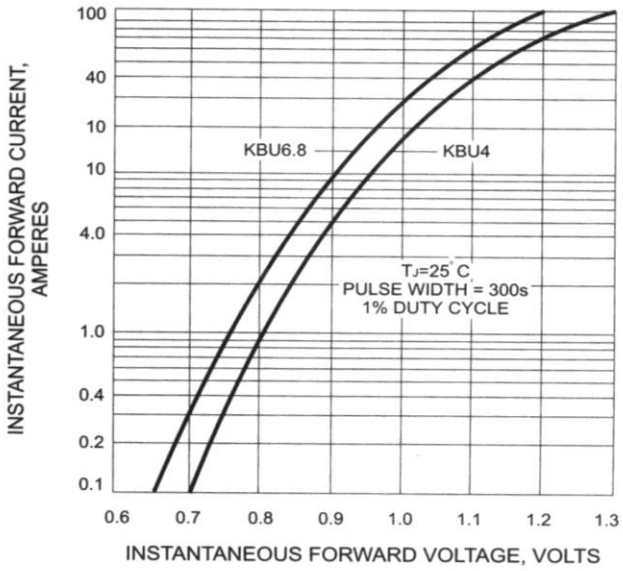


FIG. 3 - MAXIMUM NON-RETETITIVE PEAK FORWARD SURGE CURRENT

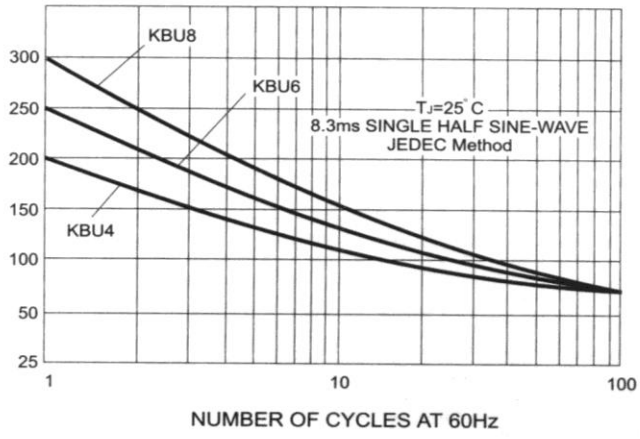


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

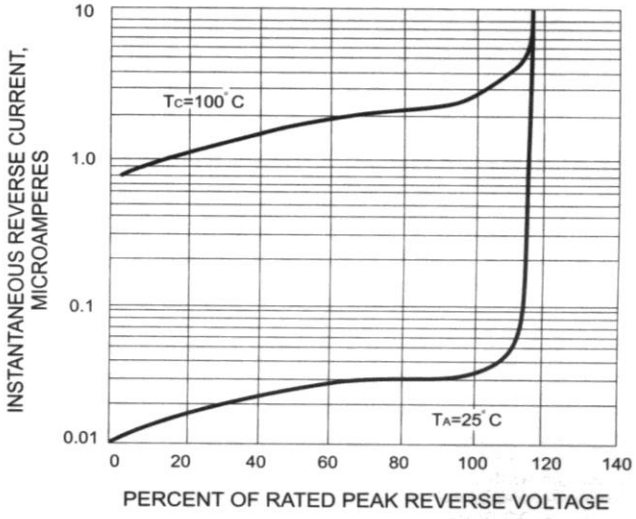


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT