

KBU4AG THRU KBU4MG

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE: 50 to 1000V

CURRENT: 4.0A

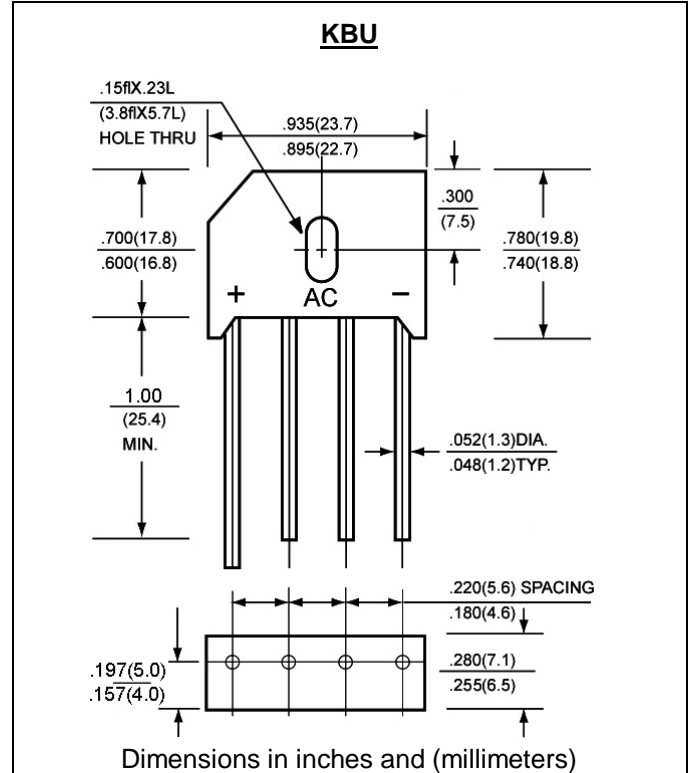


FEATURE

Ideal for printed circuit board
Surge overload rating: 200 A peak
High case dielectric strength
Glass passivated chip

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	KBU 4AG	KBU 4BG	KBU 4DG	KBU 4GG	KBU 4JG	KBU 4KG	KBU 4MG	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 =75°C Ta =30°C	I _{f(av)}	4.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	200.0							A
Maximum Instantaneous Forward Voltage drop per leg at 4.0A	V _f	1.0							V
Maximum DC Reverse Current at rated DC blocking voltage Ta =25°C Ta =125°C	I _r	5.0 500							μA
Typical Thermal Resistance per leg (Note1) (Note2)	R _{th(ja)} R _{th(jl)}	19.0 4.0							°C/W
Storage and Operation Junction Temperature	T _j , T _{stg}	-55 to +150							°C

Note:

- Units mounted on P.C.B. with 0.5×0.5"(12×12mm) copper pads and 0.375"(9.5mm) lead length
- Units mounted on 2.0×1.6×0.3" thick(5×4×0.8cm) Al plate

RATINGS AND CHARACTERISTIC CURVES KBU4AG THRU KBU4MG

FIG. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT

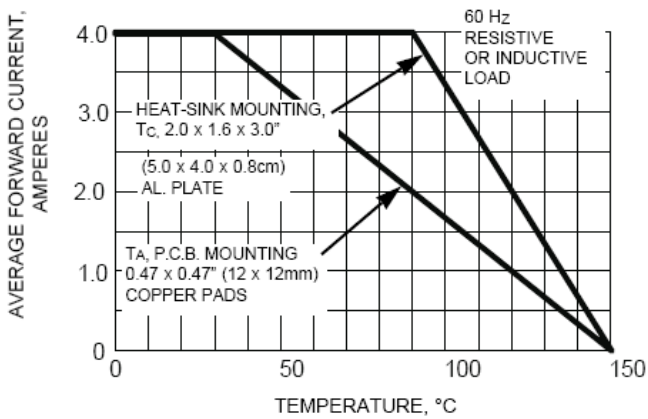


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

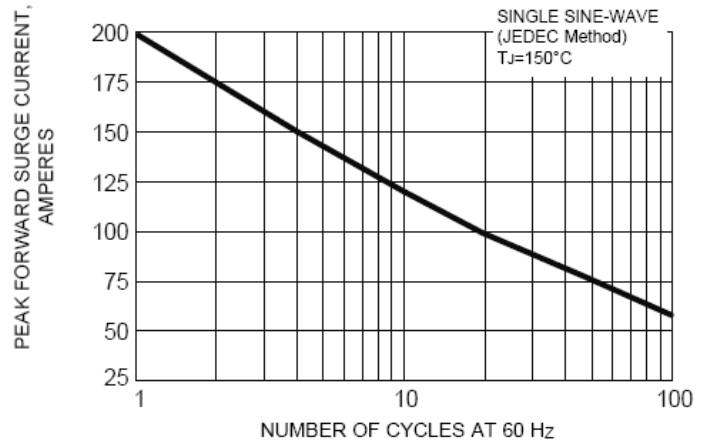


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

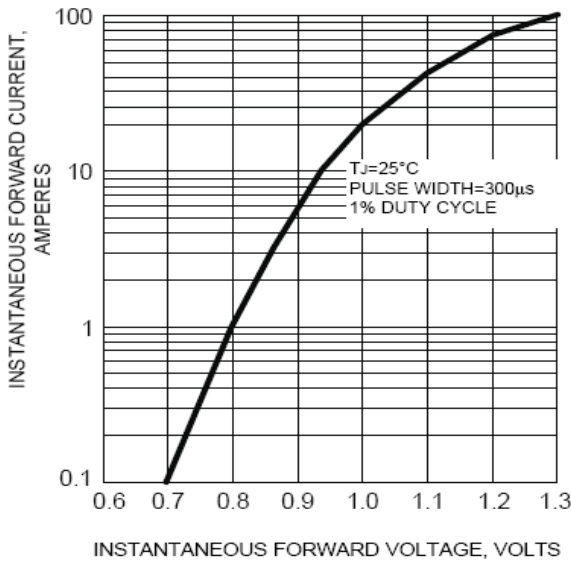


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

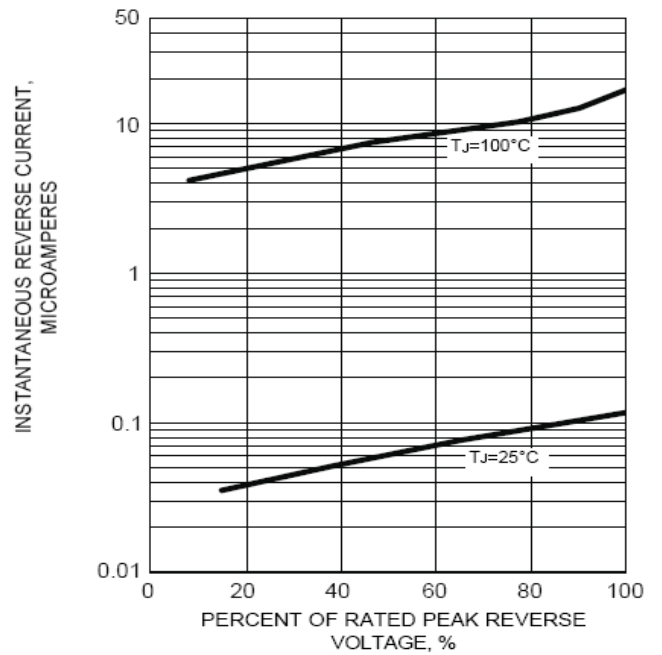


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER LEG

