



# KBU10A~KBU10M

## SILICON BRIDGE RECTIFIERS

**VOLTAGE** 50 to 1000 Volts **CURRENT** 10.0 Amperes

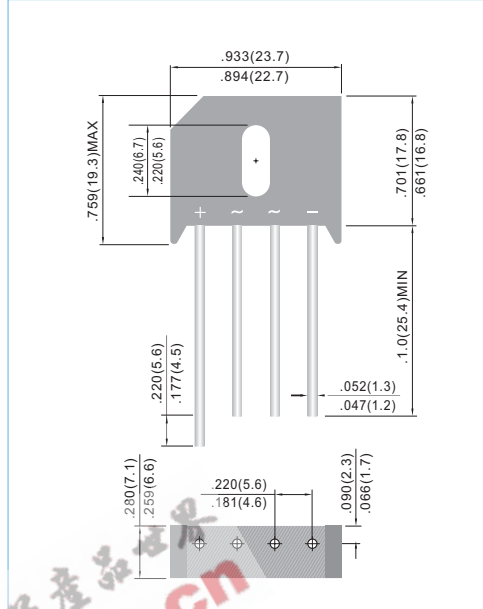
KBU Unit: inch (mm)

### FEATURES

- Plastic material used carries Underwriters Laboratory Flammability Classification 94V-0
- Reliable low cost construction utilizing molded plastic technique.
- Surge overload rating : 300 amperes peak
- Ideal for printed circuit board.
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

- Case: Reliable low cost construction utilizing molded plastic technique
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Mounting Position: Any
- Weight: 6.9 grams



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	KBU10A	KBU10B	KBU10D	KBU10G	KBU10J	KBU10K	KBU10M	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current at T <sub>A</sub> =100°C	I <sub>AV</sub>				10.0				A
Rectified Output Current at T <sub>A</sub> =45°C					8.0				
Peak Forward Surge Current single-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>				300				A
Maximum Instantaneous Forward Voltage Drop per Element at 8.0A	V <sub>F</sub>				1.1				V
Maximum Reverse Leakage at Rated DC Blocking Voltage per element T <sub>A</sub> =100°C	I <sub>R</sub>				10.0				μA
					300				mA
Maximum Temperature Resistance JC (Note1)	R <sub>JW-C</sub>				2.5				°C/W
Operating and Storage Temperature Range	T <sub>STG</sub>				-55 to +150				°C



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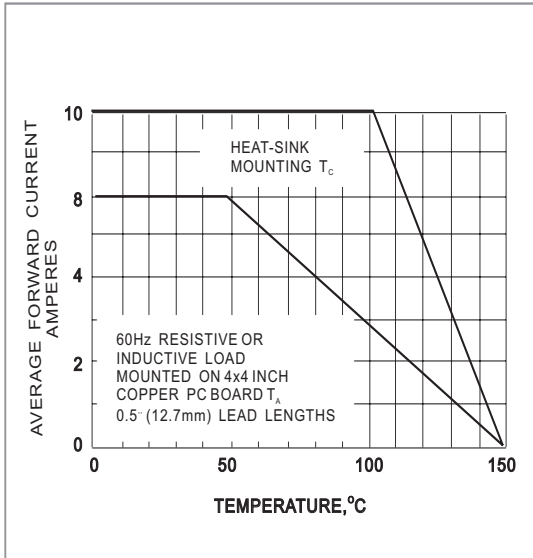


FIG. 1- DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

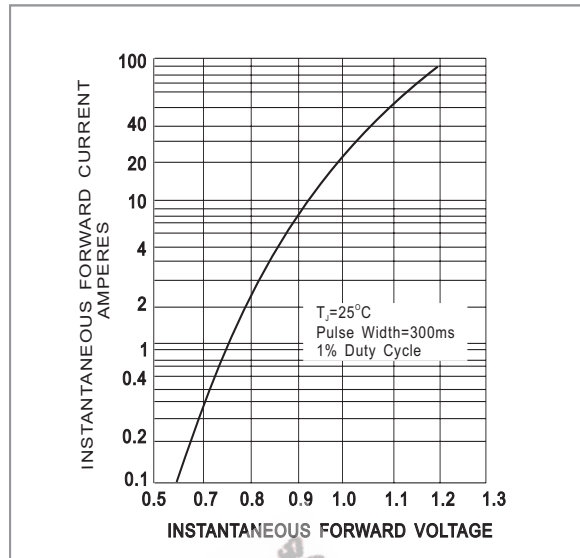


FIG. 2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT

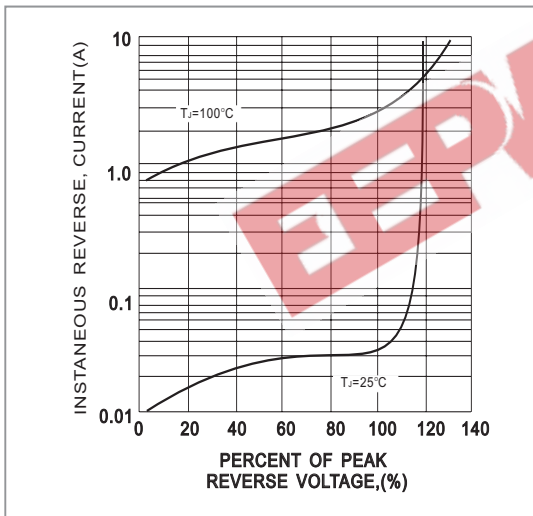


FIG. 3- TYPICAL REVERSE CHARACTERISTICS

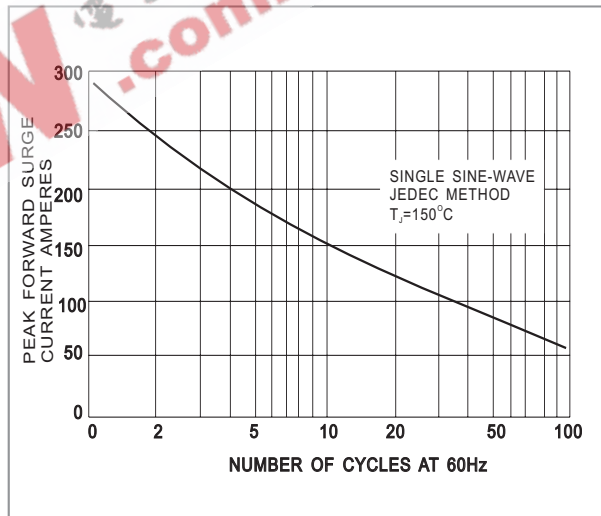


FIG. 4- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

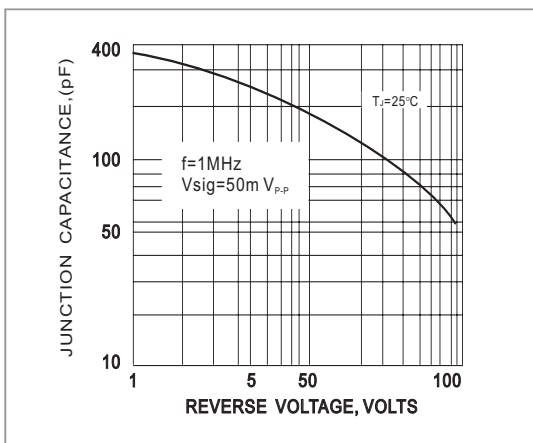


FIG. 5- TYPICAL JUNCTION CAPACITANCE PER ELEMENT