



KBU10A~KBU10M

SILICON BRIDGE RECTIFIERS

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

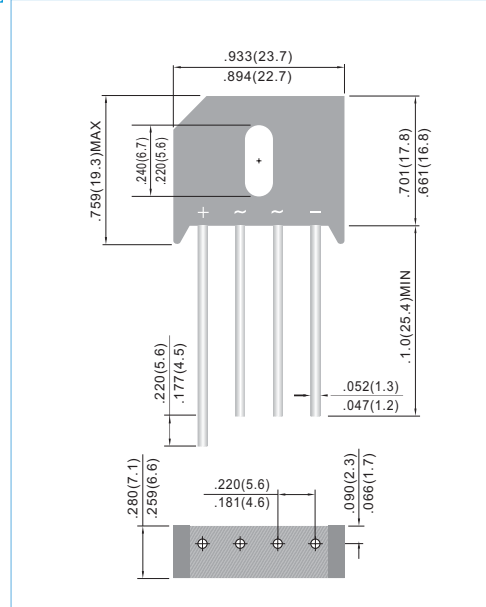
KBU Unit: inch (mm)

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_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input 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 Output Current at $T_A=100^\circ\text{C}$ at $T_A=45^\circ\text{C}$	I_{AV}					10.0 8.0			A
Peak Forward Surge Current single-wave superimposed on rated load (JEDEC Method)	I_{FSM}					300			A
Maximum Instantaneous Forward Voltage Drop per Element at 8.0A	V_F					1.1			V
Maximum Reverse Leakage at Rated DC Blocking Voltage per element $T_A=100^\circ\text{C}$ $T_A=25^\circ\text{C}$	I_R					10.0 300			μA mA
Maximum Temperature Resistance JC (Note1)	$R_{\theta J-C}$					2.5			$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_{STG}					-55 to +150			$^\circ\text{C}$



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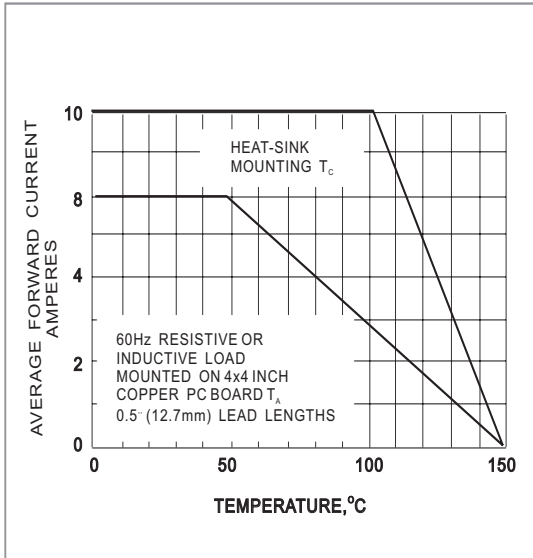


FIG. 1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

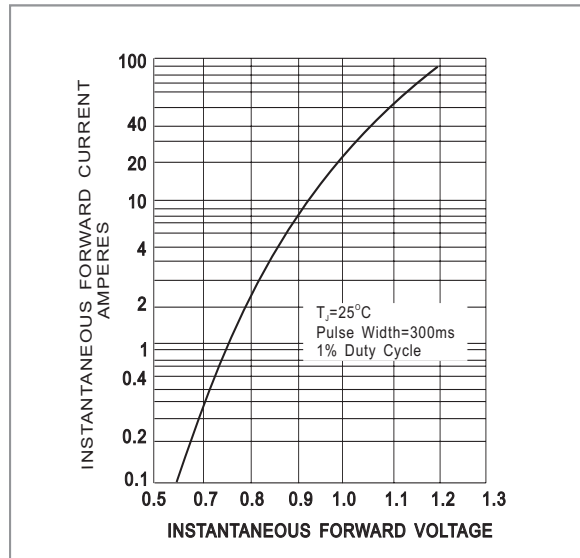


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT

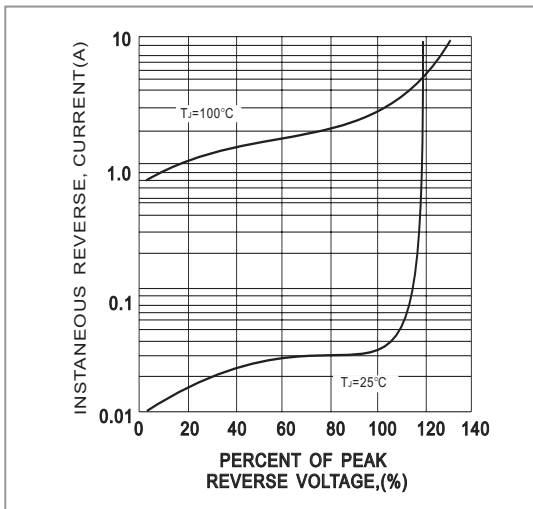


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

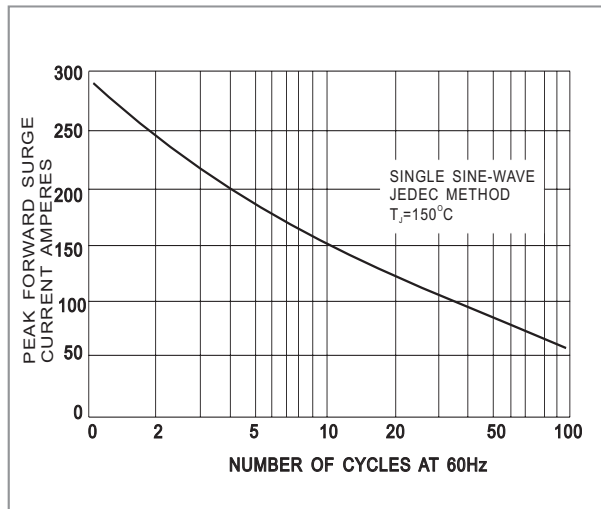


FIG. 4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

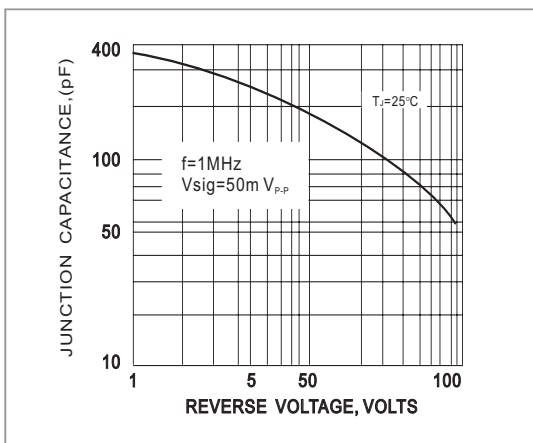


FIG. 5-TYPICAL JUNCTION CAPACITANCE PER ELEMENT