

KBU SILICON BRIDGE RECTIFIERV

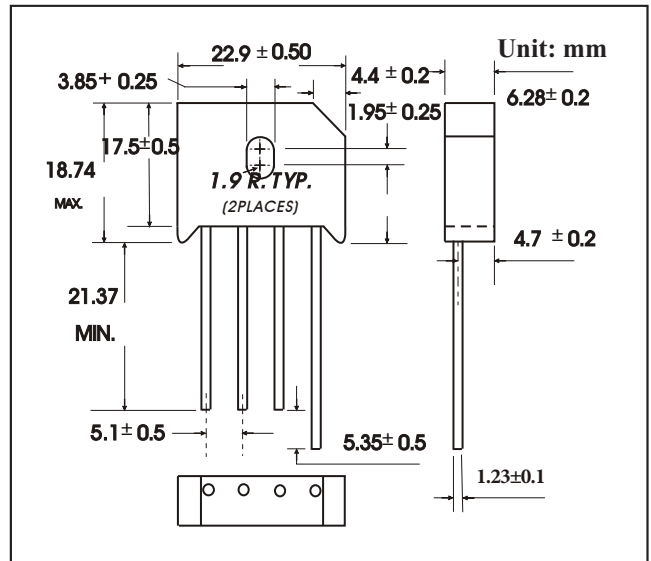
REVERSE VOLTAGE: 50 --- 1000V CURRENT: 4A/6A/8A

FEATURES

- Surge overload rating -125~175 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has UL

MECHANICAL DATA

- Mounting position: Any
- Mounting torque: 5 In.lb. Max



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted) Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

CHARACTERISTICS	KBU4005	KBU401	KBU402	KBU404	KBU406	KBU408	KBU410	UNIT
	KBU6005	KBU601	KBU602	KBU604	KBU606	KBU608	KBU610	
	KBU8005	KBU801	KBU802	KBU804	KBU806	KBU808	KBU810	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current at $T_C=100^\circ\text{C}$	KBU4	4.0	KBU6	6.0		KBU8	8.0	A
Rectified Output Current at $T_A=50^\circ\text{C}/40^\circ\text{C}/45^\circ\text{C}$		4.0		6.0			6.0	A
Peak Forward Surge Current 8.3ms single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)		125		150			175	A
Maximum Instantaneous Forward Voltage Drop per Element at 4.0A/3.0A/4.0A		1.1		1.1			1.1	V
Maximum Reverse Leakage at rated $T_A=25^\circ\text{C}$		10		10			10	μA
DC Blocking Voltage Per Element $T_A=100^\circ\text{C}$		1000		1000			1000	mA
Operating and Storage Temperature Range T_J, T_{STG}	-55 to +150							$^\circ\text{C}$

RATINGS AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

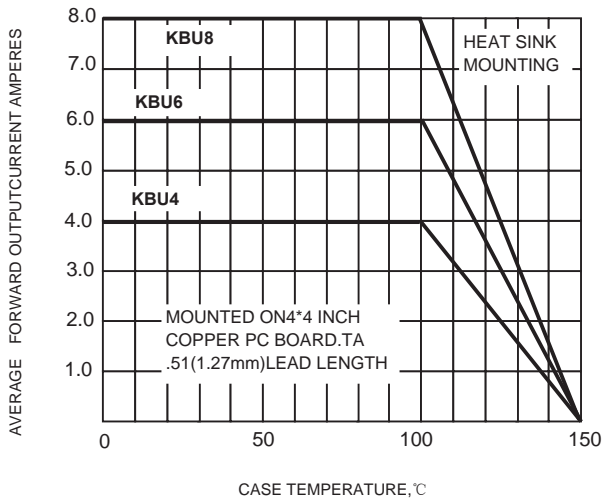


FIG.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

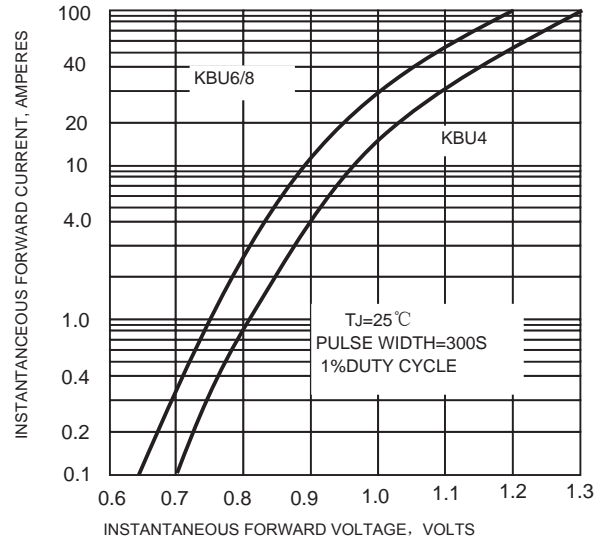


FIG.3-MAXIMUM NON-RETETITIVE PEAK FORWARD SURGE CURRENT

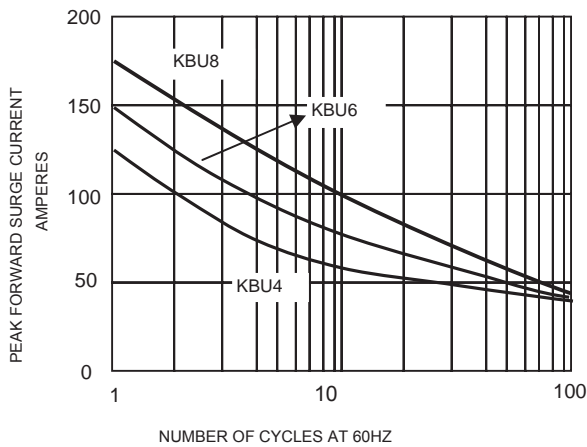


FIG.4-TYPICAL REVERSE CHARACTERISTICS

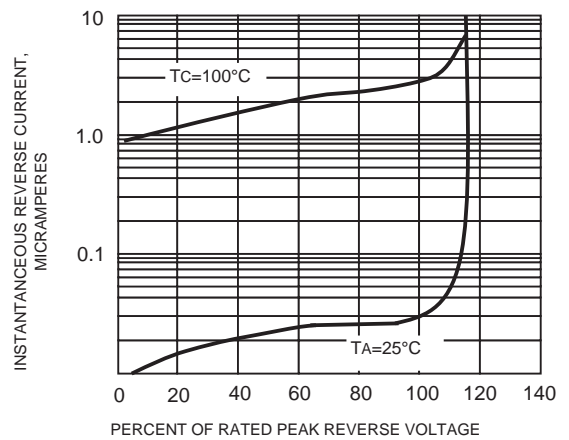


FIG.5-TYPICAL JUNCTION CAPACITANCE PER ELEMENT

