RECTIFIER SPECIALISTS RS601/KBU6A RECTIFIER SPECIALISTS

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

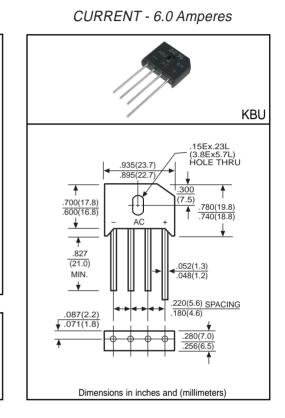
- * Low leakage
- * Low forward voltage
- * Surge overload rating: 175 Amperes peak

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Symbols molded or marked on body
- * Mounting position: Any
- * Weight: 4.8 grams



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%.



			KBU6A	KBU6B	KBU6D	KBU6G	KBU6J	KBU6K	KBU6M	
		SYMBOL	RS601	RS602	RS603	RS604	RS605	RS606	RS607	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage		Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current @Tc=100°C		lo	6.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		Ifsm	175							Amps
Maximum Forward Voltage Drop per element at 3.0A DC		VF	1.0							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	@TJ = 25°C	IR	10							μAmps
	@Tj = 125°C		500							
Typical Junction Capacitance (Note1)		CJ	260							pF
Typical Thermal Resistance (Note 2)		RθJA	10							°C/W
Operating Temperature Range		TJ	-55 to +150							°C
Storage Temperature Range		Tstg	-55 to +150							°C

NOTES : 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts.

2. Thermal Resistance from Junction to Case per element Unit mounted on 50x50x1.6mm Cu plate heat-sink.



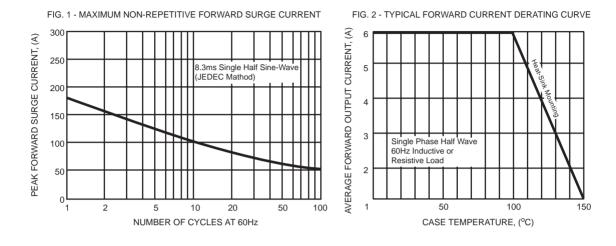


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

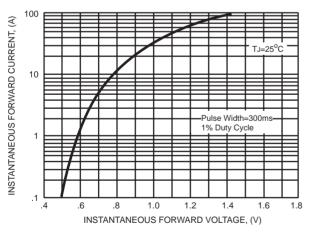
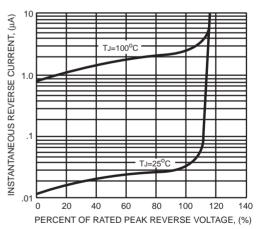


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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