



**DC COMPONENTS CO., LTD.**

RECTIFIER SPECIALISTS

KBU6A / RS601

THRU

KBU6M / RS607

**TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER**

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 6.0 Amperes

**FEATURES**

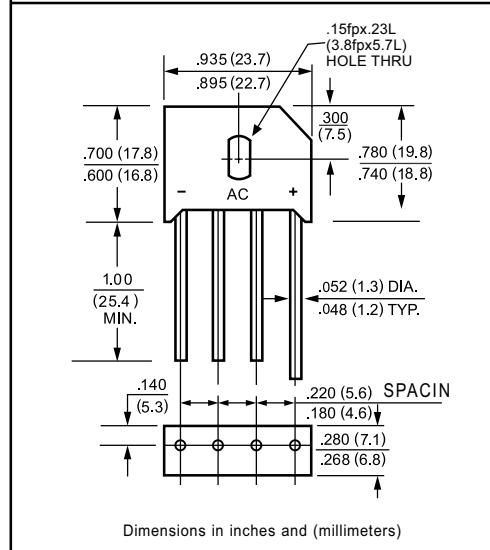
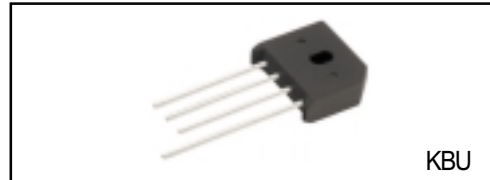
- \* Low leakage
- \* Low forward voltage
- \* Surge overload rating: 250 Amperes peak
- \* Molded structure

**MECHANICAL DATA**

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

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, 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		50	100	200	400	600	800	1000	Volts	
Maximum RMS Bridge Input Voltage		35	70	140	280	420	560	700	Volts	
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	Volts	
Maximum Average Forward Rectified Output Current at Tc = 75°C		6.0								Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load		250								Amps
Maximum Forward Voltage Drop per element at 3.0A DC		1.0								Volts
Maximum DC Reverse Current at Rated	@TA = 25°C	10								uAmps
	DC Blocking Voltage per element	500								
i <sup>2</sup> t Rating for Fusing (t<8.3ms)		127								A <sup>2</sup> Sec
Typical Junction Capacitance ( Note1)		186								pF
Typical Thermal Resistance (Note 2)		10								°C/W
Operating and Storage Temperature Range		-55 to + 150								°C

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

2. Thermal Resistance from Junction to Ambient and from junction to leadmounted on P.C.B. with 0.47 x 0.47" (12x12mm) copper pads.

# RATING AND CHARACTERISTIC CURVES

( KBU6A THRU KBU6M  
RS601 THRU RS607 )

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

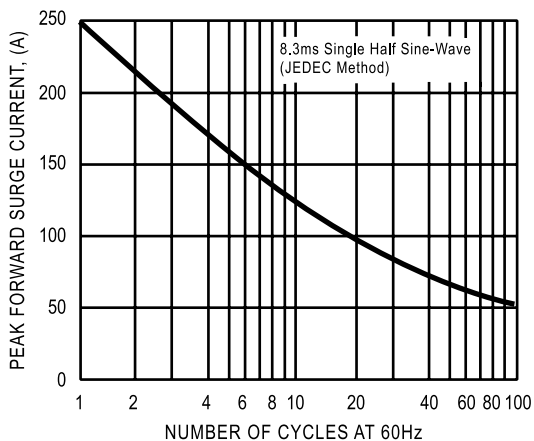


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

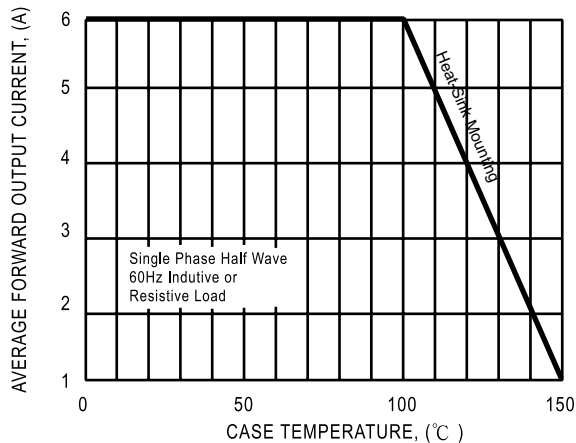


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

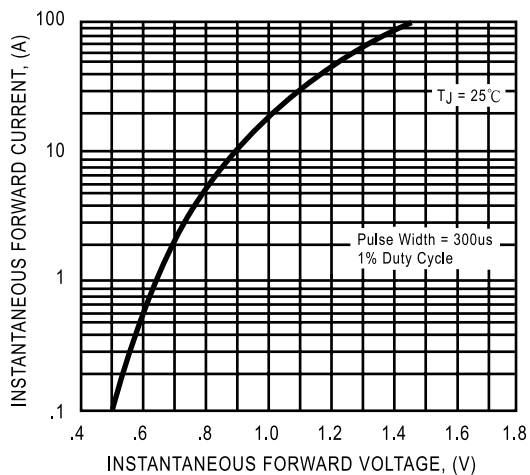
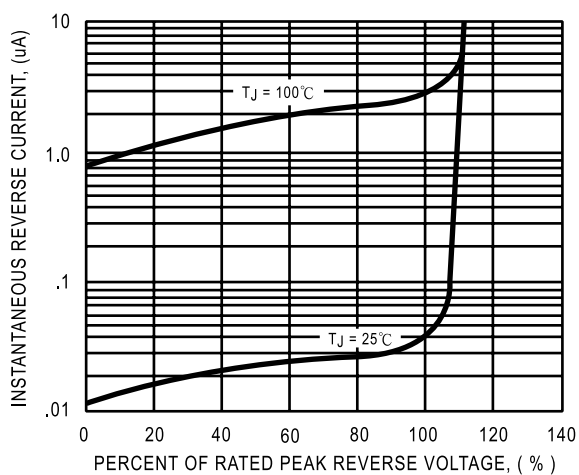


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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