

KBU8A/RS801 THRU KBU8M/RS807

SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 8.0A

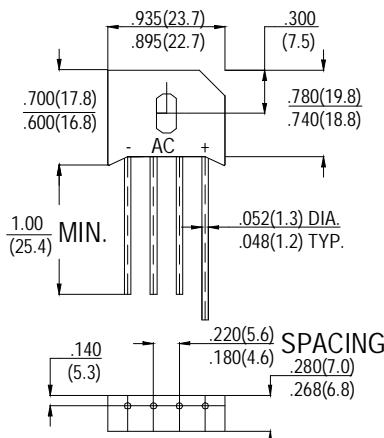
FEATURES

- Low leakage
- Low forward voltage
- Surge overload ratings-250 Amperes
- 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:** 8.0 grams

KBU



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRONICAL 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%.

	SYMBOL	RS801	RS802	RS803	RS804	RS805	RS806	RS807	units
		KBU8A	KBU8B	KBU8D	KBU8G	KBU8J	KBU8K	KBU8M	
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 $T_c=75^\circ C$	I_o	8.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	250							A
Maximum Forward Voltage Drop per element at 4.0A DC	V_F	1.0							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per element @ $T_A=25^\circ C$	I_R	10						μA	
		500							
I^2t Rating for Fusing ($t<8.3ms$)	I^2t	127						A^2S_{ec}	
Typical Junction Capacitance (Note 1)	C_J	186						pF	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	10						$^\circ C/W$	

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

2. Thermal Resistance from Junction to Ambient with units mounted on 0.47×0.47"(12×12mm) copper pads