DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

KBU8A / RS801
THRU
KBU8M / RS807

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts *CURRENT - 8.0 Amperes*

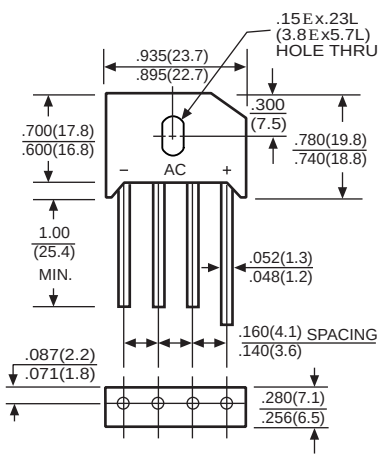
FEATURES

* Low leakage
* Low forward voltage
* Surge overload rating: 250 Amperes peak

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

KBU



Dimensions in inches and (millimeters)

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%.

		SYMBOL	KBU8A RS801	KBU8B RS802	KBU8D RS803	KBU8G RS804	KBU8J RS805	KBU8K RS806	KBU8M RS807	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage		V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current at T_C = 75°C		I_O	8.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load		I_{FSM}	250							Amps
Maximum Forward Voltage Drop per element at 4.0A DC		V_F	1.0							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	@T_A = 25°C	I_R	10							uAmps
	@T_C = 100°C		500							
I^2t Rating for Fusing (t<8.3ms)		I^2t	127							A^2Sec
Typical Junction Capacitance (Note1)		C_J	186							pF
Typical Thermal Resistance (Note 2)		$R\theta JA$	10							°C/W
Operating and Storage Temperature Range		T_J,T_{STG}	-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.