

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

KBU6A - KBU6M

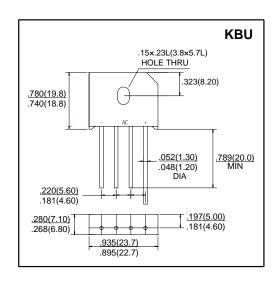
VOLTAGE RANGE - 50 to 1000 V CURRENT - 6 A

FEATURES

- Glass Passivated Chip
- High forward surge current capability Ideal for printed circuit board
- High temperature soldering guaranteed:260 °C/10 second,
- 0.375" (9.5mm) lead length at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

- Case: Transfer molded plastic
- Terminal: Lead solderable per MIL-STD-202E method 208C
- Polarity: Polarity symbols marked on case
- Mounting: Thru hole for #6 screw, 5 in.-lbs terque max
- Weight: 0.27 ounce, 7.59 gram



MAXIMUM RATINGS AND ELECTRICAL 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%.

			SYMBOLS	KBU6A	KBU6B	KBU6D	KBU6G	KBU6J	KBU6K	KBU6M	UNITS
Maximum Repetitive Peak Reverse Voltage			V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS 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 =115°C (Note 2)		I _(AV)	6.0							Amps
	T _A =25°C (Note 3)			2.5							
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)			I_{FSM}	135							Amps
Rating for Fusing (t<8.3ms)			I^2t	75							A^2s
Maximum Instantaneous Forward Voltage Drop per bridge element at 6.0A			$V_{\rm F}$	1.1							Volts
Maximum DC Reverse Current DC blocking voltage per elemen		T _A =25 ℃	I_R	5							μAmps
	İ	$T_A=100^{\circ}\mathrm{C}$	*K	0.5							mAmps
Typical Junction Capacitance (Note 1)		$C_{\rm J}$	200							pF	
Typical Thermal Resistance (Note 2)			$R_{\theta JC}$	5							°C/W
Operating and Storage Temperature Range			T_{J}, T_{STG}	-55 to +150							$^{\circ}$

NOTES:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
- 2. Unit mounted on 2.6"x1.4"x0.06" thick (6.3x3.5x0.15cm) Al. plate.
- 3. Unit mounted in free air, no heatsink, P.C.B at 0.375" (9.5mm) lead length with 0.5"x0.5" (12x12cm) copper pads

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Email: Sales@micindia.com Website: www.micindia.com

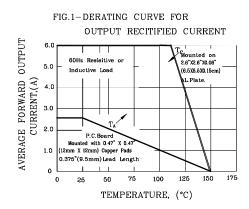


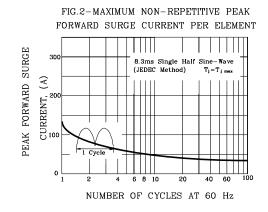
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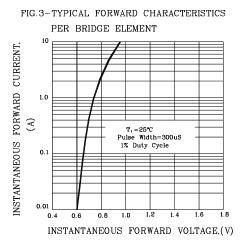
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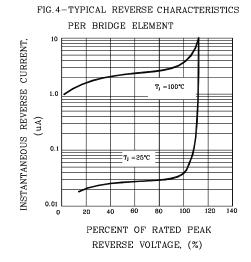
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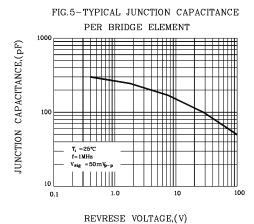
RATING AND CHRACTERISTIC CURVES KBU6A - KBU6M











Email: Sales@micindia.com Website: www.micindia.com