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## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

# KBU6A - KBU6M

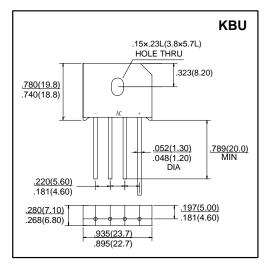
#### VOLTAGE RANGE - 50 to 1000 V **CURRENT - 6 A**

#### **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 <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward T <sub>C</sub> =1	5℃ (Note 2)	т	6.0							Amps
Rectified Output Current, at T <sub>A</sub> =2:	5°C (Note 3)	I <sub>(AV)</sub>	2.5							
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I <sub>FSM</sub>	135							Amps
Rating for Fusing (t<8.3ms)		$I^2 t$	75							A <sup>2</sup> s
Maximum Instantaneous Forward Voltage Drop per bridge element at 6.0A		$V_{\rm F}$	1.1							Volts
Maximum DC Reverse Current at rated	$T_A\!\!=\!\!25^\circ\!\mathbb{C}$	I <sub>R</sub>	5							μAmps
DC blocking voltage per element	$T_A=100$ °C	IR	0.5							mAmps
Typical Junction Capacitance (Note 1)		$C_J$	200							pF
Typical Thermal Resistance (Note 2)		$R_{\theta JC}$	5							°C/W
Operating and Storage Temperature Range		T <sub>J</sub> , T <sub>STG</sub>	-55 to +150							°C

#### **NOTES:**

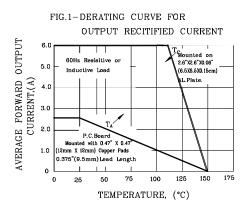
- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
- 2. Unit mounted on 2.6"x1.4"x0.06" thick (6.3x3.5x0.15cm) Al. plate.
- 3. Unit mounted in free air, no heatsink, P.C.B at 0.375" (9.5mm) lead length with 0.5"x0.5"
- (12x12cm) copper pads

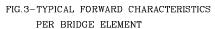


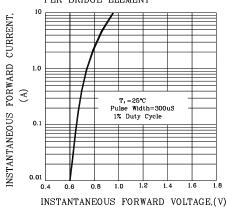
# KBU6A - KBU6M

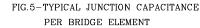
VOLTAGE RANGE - 50 to 1000 V CURRENT - 6 A

# **RATING AND CHRACTERISTIC CURVES KBU6A - KBU6M**









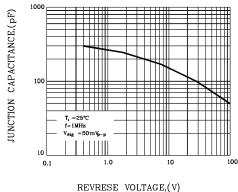


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER ELEMENT

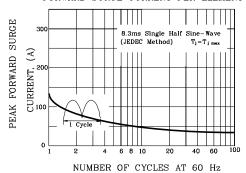


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

