



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206



RECTIFIER SPECIALISTS

**KBJ4A
THRU
KBJ4M**

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 4.0 Amperes

FEATURES

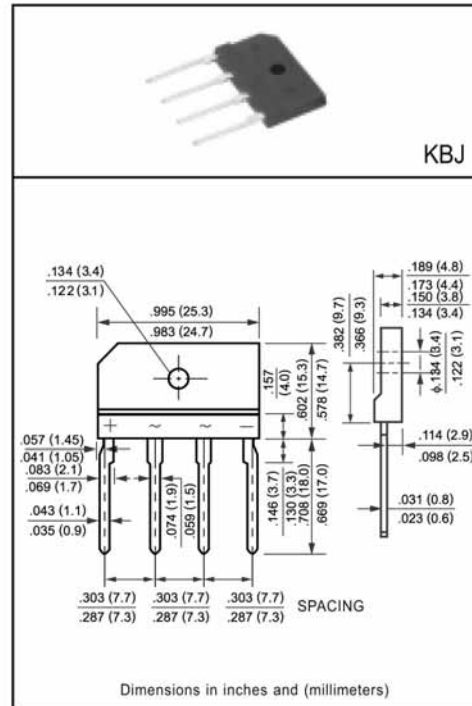
- * Ideal for printed circuit board
- * Surge overload rating: 120 Amperes peak

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Symbols molded or marked on body
- * Mounting position: Any
- * Weight: 4.6 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%.



	SYMBOL	KBJ4A	KBJ4B	KBJ4D	KBJ4G	KBJ4J	KBJ4K	KBJ4M	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at Tc = 100°C	Io	4.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	120							Amps
Maximum Forward Voltage Drop per element at 3.0A DC	VF	1.0							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	IR	@TA = 25°C							uAmps
		@TA = 100°C							
I ² t Rating for Fusing (t<8.3ms)	I ² t	93							A ² Sec
Typical Junction Capacitance (Note1)	Cj	40							pF
Typical Thermal Resistance (Note 2)	RθJA	19							°C/W
Operating Temperature Range	Tj	-55 to + 150							°C
Storage Temperature Range	Tstg	-55 to + 150							°C

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

2.Thermal Resistance from Junction to Case per element Unit mounted on 300x300x1.6mm Aluminum plate heat-sink.



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RATING AND CHARACTERISTIC CURVES (KBJ4A THRU KBJ4M)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

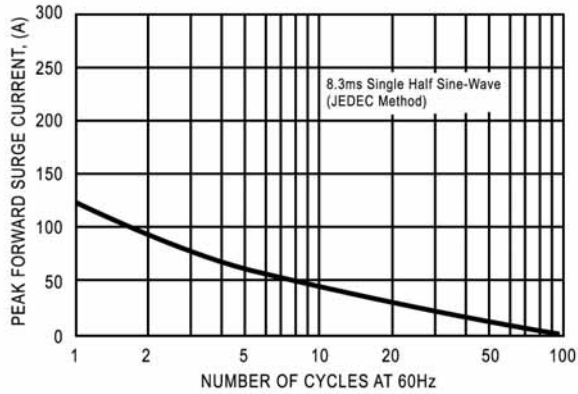


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

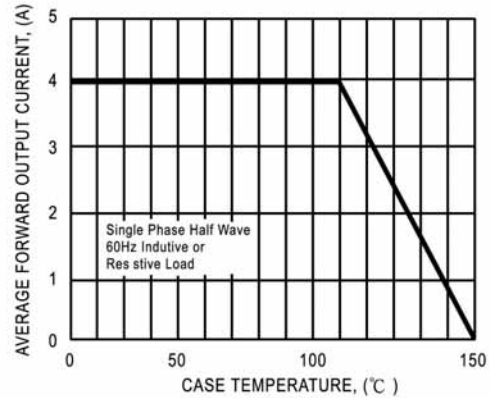


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

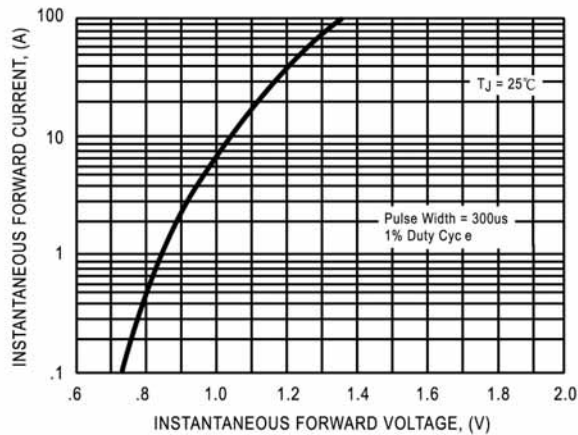


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

