

CHENMKO ENTERPRISE CO.,LTD

SINGLE PHASE SILICON RECTIFIER

KBJ4APT THRU KBJ4MPT

VOLTAGE RANGE 50 - 1000 Volts CURRENT 4 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Idea for printed circuit board
- * Glass passivated chip junctions
- * Low power loss
- * Low forward voltage, high current capability
- * High surge current capability
- * High temperature soldering guaranteed : 260°C/10 seconds at terminals

MECHANICAL DATA

Case: KBJ molded plastic

Terminals: Lead solderable per MIL-STD-750,

Method 2026

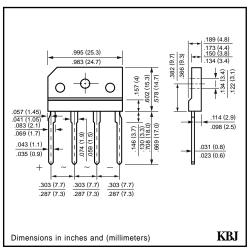
Polarity: As marked

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at $25^{\circ}\mathrm{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.





MAXIMUM RATINGES (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	KBJ4BPT	KBJ4APT	KBJ4DPT	KBJ4GPT	KBJ4JPT	KBJ4KPT	KBJ4MPT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS 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 Rectified Current	lo	4.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150						Amps	
Rating for fusing (t > 1 mSec, t < 8.3 mSec)	l²t	93						A ² Sec	
Typical Junction capacitance per leg (NOTE 1)	Cı	45						pF	
Typical thermal resistance (NOTE 2)	R θJ-c	4.0						°C/W	
Operating and Storage Temperature Range	Тл, Тѕтс	-55 to +150						°C	

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

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CHARACTERISTICS		SYMBOL	KBJ4BPT	KBJ4APT	KBJ4DPT	KBJ4GPT	KBJ4JPT	KBJ4KPT	KBJ4MPT	UNITS
Maximum Instantaneous Forward Voltage at 4.0 /	age at 4.0 A DC			1.0						Volts
Maximum DC reverse current	$TA = 25^{\circ}C$	l _R	5.0						uAmps	
at rated DC blocking voltage per leg	TA = 125°C] "	500							

NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

Thermal resistance from junction to case and device mounted on 50 X 50 X 1.6 mm copper heatsink.

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