



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

R4000

THRU

R5000

TECHNICAL SPECIFICATIONS OF HIGH VOLTAGE SILICON RECTIFIER

VOLTAGE RANGE - 4000 to 5000 Volts

CURRENT - 0.2 Ampere

FEATURES

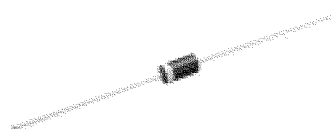
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

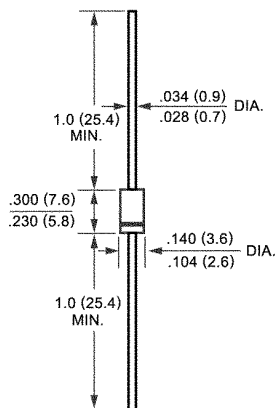
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.35 gram

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%.



DO-15



Dimensions in inches and (millimeters)

	SYMBOL	R4000	R5000	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	4000	5000	Volts
Maximum RMS Volts	VRMS	2800	3500	Volts
Maximum DC Blocking Voltage	VDC	4000	5000	Volts
Maximum Average Forward Rectified Current at TA = 50°C	IO	200		mAmps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30		Amps
Maximum Instantaneous Forward Voltage at 0.2A DC	VF	5.0		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	@TA = 25°C	5.0	uAmps
		@TA = 100°C	100	
Maximum Full Load Reverse Current Average, Full Cycle .375" (9.5mm) lead length at TL = 75°C		30		uAmps
Typical Junction Capacitance (Note)	CJ	30		pF
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 175		°C

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



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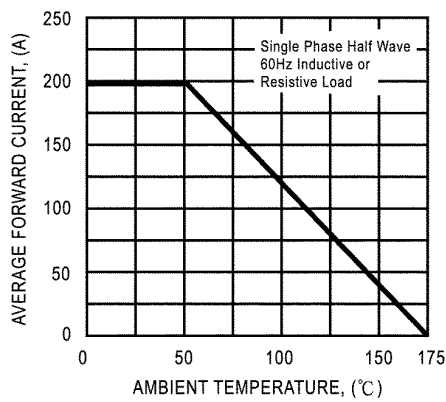
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RATING AND CHARACTERISTIC CURVES (R4000 THRU R5000)

**FIG. 1 - TYPICAL FORWARD CURRENT
DERATING CURVE**



**FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT**

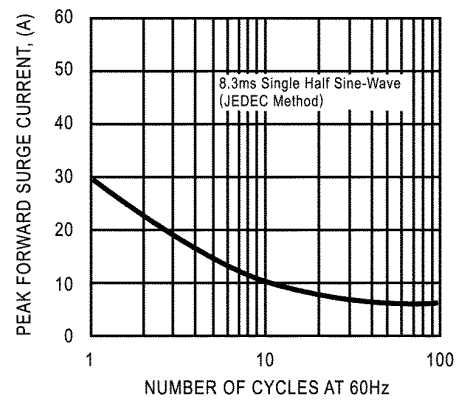


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

