

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

R4000F THRU R5000F

TECHNICAL SPECIFICATIONS OF HIGH VOLTAGE FAST RECOVERY RECTIFIER

VOLTAGE RANGE0 - 4000 to 5000 Volts

CURRENT - 0.2 Ampere

FEATURES

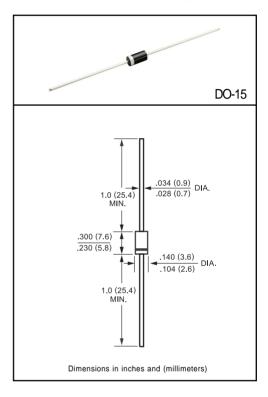
- *Fast switching
- *Low leakage
- *High reliability
- *High current capability
- *High surge capability

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: 0.4 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%.



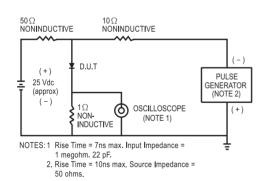
	SYMBOL	R4000F	R5000F	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	4000	5000	Volts
Maximum RMS Volts	VRMS	2800	3500	Volts
Maximum DC Blocking Voltage	VDC	4000	5000	Volts
Maximum Average Forward Rectified Current at TA = 50°C	lo	200		mAmps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30		Amps
Maximum Instantaneous Forward Voltage at 0.2A DC	VF	6.5		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C	l _R	5.0		uAmps
Maximum Full Load Reverse Current Average, Full Cycle .375*(9.5mm) lead length at T L = 55°C	100		uAmps	
Maximum Reverse Recovery Time (Note)	trr	500		nSec
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 175		°C

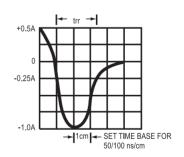
NOTES: Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

FIG. 1 - TYPICAL FORWARD CURRENT **DERATING CURVE** AVERAGE FORWARD CURRENT, (A) Single Phase Half Wave 60Hz Inductive or Resistive Load AMBIENT TEMPERATURE, (°C)

FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PEAK FORWARD SURGE CURRENT, (A) 8.3ms Single Half Sine-Wave (JEDEC Method) 1 2 NUMBER OF CYCLES AT 60Hz

FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC







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Datasheets for electronics components.