

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

R4000F THRU R5000F

TECHNICAL SPECIFICATIONS OF HIGH VOLTAGE FAST RECOVERY RECTIFIER VOLTAGE RANGE - 4000 to 5000 Volts CURRENT - 0.2 Ampere

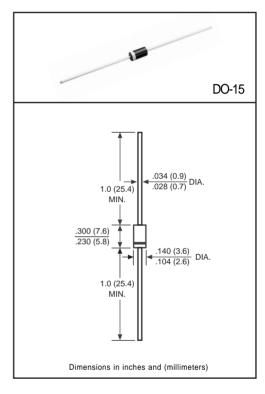
FEATURES

- * 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 Rating at 25°C ambient tempature unless ohterwise 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	1-	5.0		uAmps
Maximum Full Load Reverse Current Average, Full Cycle .375* (9.5mm) lead length at T L = 75°C	IR		00	uAmps
Maximum Reverse Recovery Time (Note)	trr	500		nSec
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 175		°C

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

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RATING AND CHARACTERISTIC CURVES (R4000F THRU R5000F)

FIG. 1 - TYPICAL FORWARD CURRNET DERATING CURVE

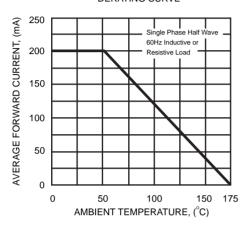


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

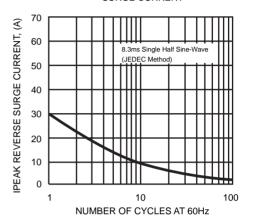
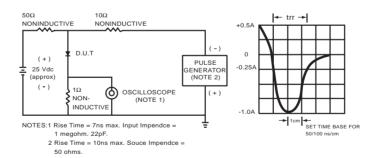


FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



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