



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

R1200F
THRU
R3000F

TECHNICAL SPECIFICATIONS OF HIGH VOLTAGE FAST RECOVERY RECTIFIER
VOLTAGE RANGE - 1200 to 3000Volts **CURRENT - 0.2 to 0.5 Ampere**

FEATURES

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

MECHANICAL DATA

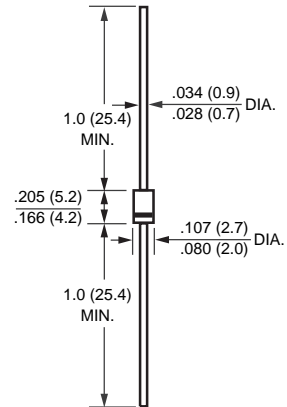
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.35 gram

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-41



Dimensions in inches and (millimeters)

	SYMBOL	R1200F	R1500F	R1800F	R2000F	R2500F	R3000F	UNITS
Maximum Recurrent Peak Reverse Voltage	RRM	1200	1500	1800	2000	2500	3000	Volts
Maximum RMS Volts	VRMS	840	1050	1260	1400	1750	2100	Volts
Maximum DC Blocking Voltage	VDC	1200	1500	1800	2000	2500	3000	Volts
Maximum Average Forward Rectified Current at TA = 50°C	Io	500			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 0.5A/0.2A DC	VF	2.5		4.0		5.0		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage @TA = 25°C	IR	5.0						uAmps
Maximum Full Load Reverse Current Average, Full Cycle .375" (9.5mm) lead length at TL = 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

RATING AND CHARACTERISTIC CURVES (R1200F THRU R3000F)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

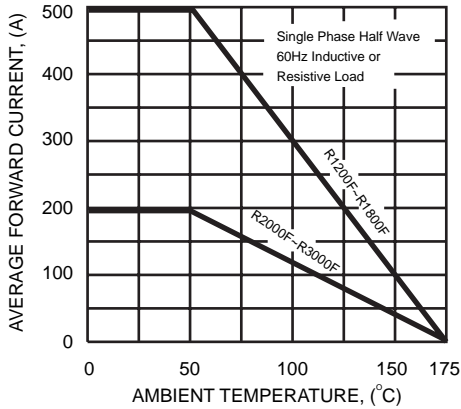


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

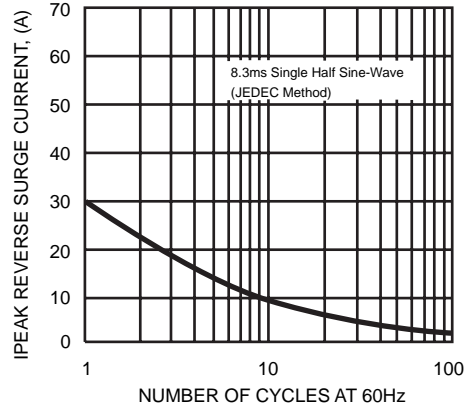
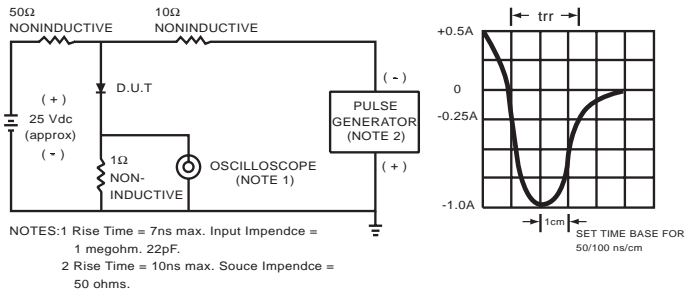


FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



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