

FAST RECOVERY RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.5 Amperes

FEATURES

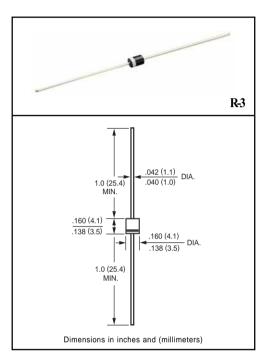
- * Fast switching
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High current surge
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.54 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%.



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

RATINGS	SYMBOL	FR251	FR252	FR253	FR254	FR255	FR255P	FR256	FR257	FR257P	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	600	800	1000	1000	Volts
Maximum RMS Voltage	Vrms	35	70	140	280	420	420	560	700	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	600	800	1000	1000	Volts
Maximum Average Forward Rectified Current at TA= 75°C	lo	2.5							Amps		
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150							Amps		
Typical Junction Capacitance (Note 2)	CJ	60							pF		
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150							٥C		

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

CHARACTERISTICS	SYMBOL	FR251 FR252	FR253 FF	R254 FR2	55 FR255F	FR256	FR257	FR257P	UNITS
Maximum Instantaneous Forward Voltage at 2.5A DC	VF	1.3							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C		5.0							
Maximum Full Load Reverse Current Average, Full Cycle .375" (9.5mm) lead length at TL = 55°C	- IR	100							uAmps
Maximum Reverse Recovery Time (Note 1)	trr	1	50	25) 150	50	00	250	nSec

NOTES : 1. Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A

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

RATING AND CHARACTERISTIC CURVES (FR251 THRU FR257)

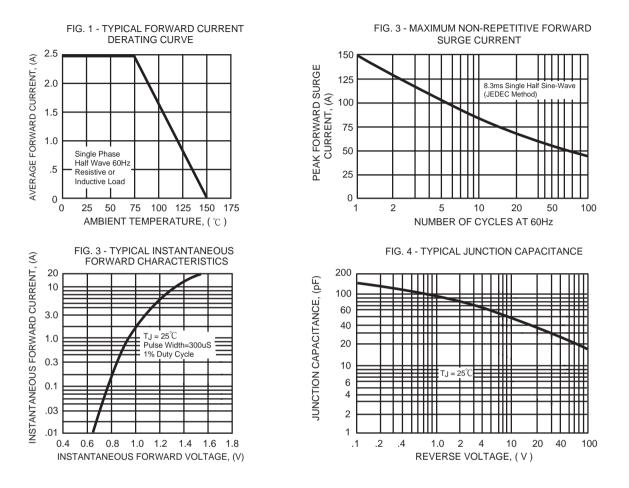
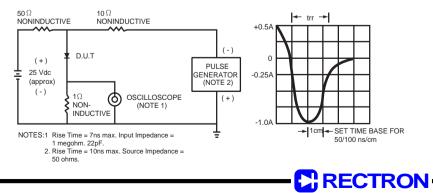


FIG. 5 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



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