

2.5A Silicon Rectifiers RL251 THRU RL257 50 to 1000 V 2.5 A

FEATURES

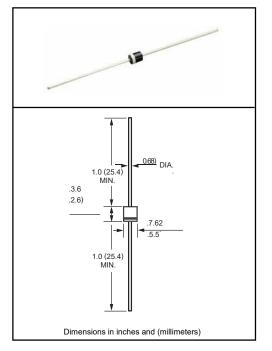
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability

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)

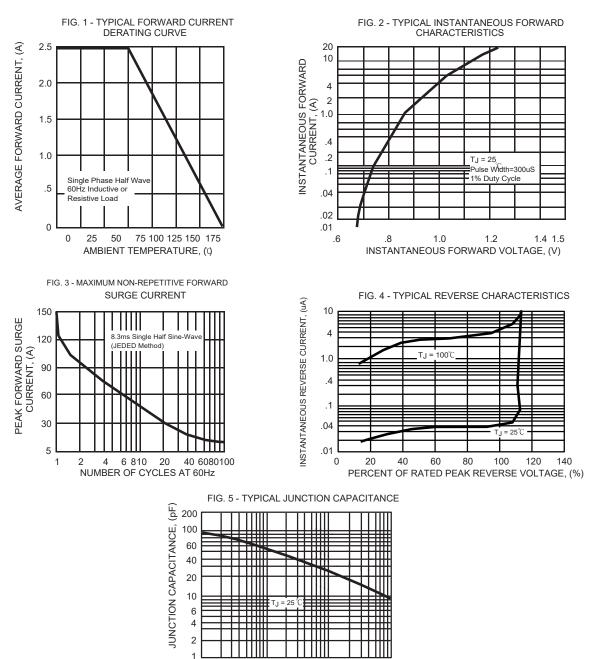
RATINGS	SYMBOL	RL251	RL252	RL253	RL254	RL255	RL256	RL257	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 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)	CJ	35							pF
Typical Thermal Resistance	RθJA	35						°C/ W	
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 175						۰C	

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

CHARACTERISTICS		SYMBOL	RL251	RL252	RL253	RL254	RL255	RL256	RL257	UNITS
Maximum Instantaneous Forward Voltage at 2.5A DC		VF	1.1							Volts
Maximum DC Reverse Current	@TA = 25°C		5.0							uAmps
at Rated DC Blocking Voltage	@Ta = 100°C	-	50							
Maximum Full Load Reverse Current Average, Full Cycle .375" (9.5mm) lead length at $TL = 75^{\circ}C$		IR	а 30						uAmps	

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

RATING AND CHARACTERISTIC CURVES (RL251 THRU RL257)



.2 .4 1.0 2 4 10 20 40 100 REVERSE VOLTAGE, (V)

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