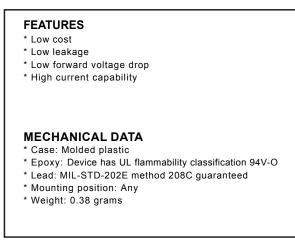
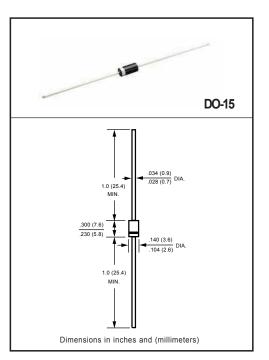




## SILICON RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.5 Amperes





### 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 (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	RL151	RL152	RL153	RL154	RL155	RL156	RL157	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> = 75 °C	Ι <sub>Ο</sub>	1.5							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	60							Amps
Typical Thermal Resistance (Note 3)	R <sub>0JA</sub>	50							°C/W
	$R_{\theta JL}$	20							
Typical Junction Capacitance (Note 2)	CJ	20						pF	
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150						°C	

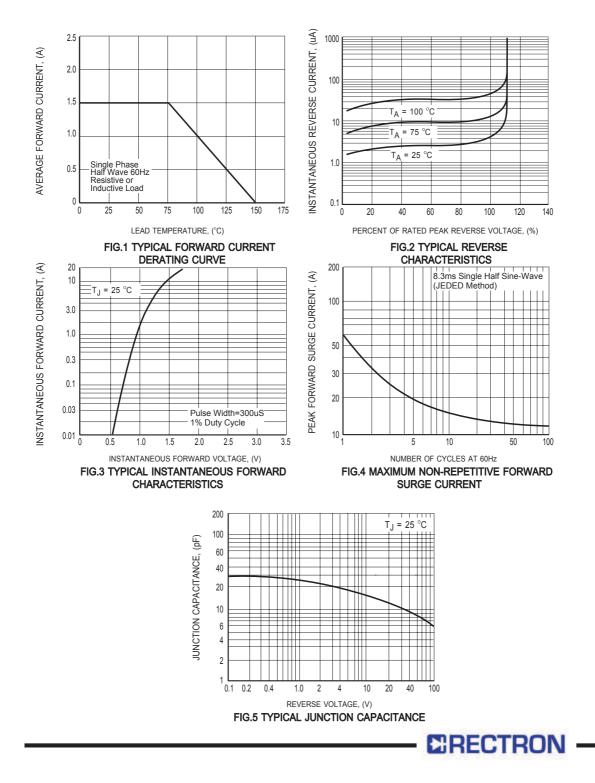
### ELECTRICAL CHARACTERISTICS(@T<sub>A</sub>=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	RL151	RL152	RL153	RL154	RL155	RL156	RL157	UNITS
Maximum Instantaneous Forward Voltage at 1.5A DC		VF	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C	- I <sub>R</sub>	5							uAmps
	@T <sub>A</sub> = 100°C		50							
Maximum Fully Load Reverse Current Average, Fully Cycle .375" (9.5mm) lead length at $T_L$ =75°C			30							

NOTES : 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts. 2. Typical Thermal Resistance : At 9.5mm lead lengths,PCB mounted. 3. "Fully ROHS complaint", "100% Sn plating (Pb-free)"

2007-09





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