RL151 THRU RL157

GENERAL PURPOSE PLASTIC RECTIFIER

VOLTAGE:50 TO 1000V CURRENT: 1.5A

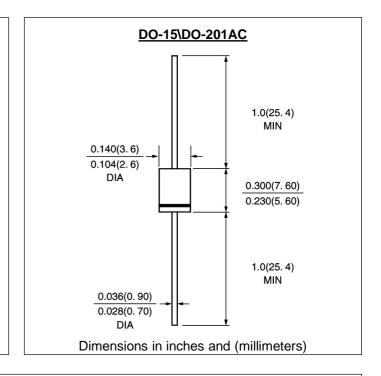


FEATURE

Molded case feature for auto insertion High current capability Low leakage current High surge capability High temperature soldering guaranteed 250°C/10sec/0.375"lead length at 5 lbs tension

MECHANICAL DATA

Terminal:Plated axial leads solderable per
MIL-STD 202E, method 208C
Case:Molded with UL-94 Class V-0 recognized Flame
Retardant Epoxy
Polarity:color band denotes cathode
Mounting position:any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

		Б.				- DI		- D1	
	SYMBOL	RL	RL	RL	RL	RL	RL	RL	units
		151	152	153	154	155	156	157	
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =75°C	If(av)	1.5							Α
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	60.0							А
Maximum Instantaneous Forward Voltage at rated forward current	Vf	1.1							V
Maximum full load reverse current full cycle at $T_L = 75^{\circ}C$	Ir(av)	30.0							μА
Maximum DC Reverse Current Ta =25°C	l.	Ir 5.0							μΑ
at rated DC blocking voltage Ta =100°C	li li	50.0							μΑ
Typical Junction Capacitance (Note 1)	Cj	20.0							pF
Typical Thermal Resistance (Note 2)	R(ja)	50.0							°C/W
Storage and Operation Junction Temperature	Tstg	-50 to +175						°C	

Note:

- 1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
- 2. Thermal Resistance from Junction to Ambient at 0.375"lead length, P.C. Board Mounted

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RATINGS AND CHARACTERISTIC CURVES RL151 THRU RL157

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

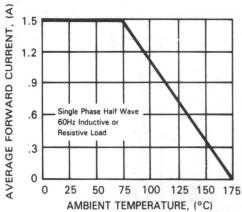


FIG. 3 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

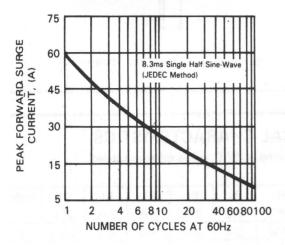


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

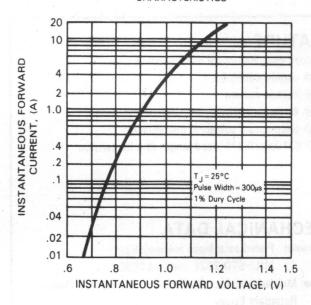


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

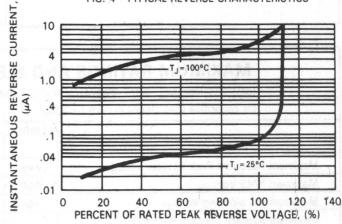
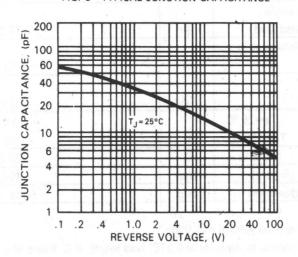


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



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