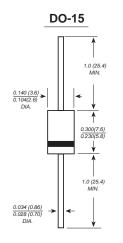


# **RL151 THRU RL157**

#### ENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current -1.5 Amperes



Dimensions in inches and (millimeters)

#### **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

#### **MECHANICAL DATA**

Case: JEDEC DO-15 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.014 ounce, 0.40 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

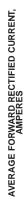
SYMBOLS	RL 151	RL 152	RL 153	RL 154	RL 155	RL 156	RL 157	UNITS
Vrrm	50	100	200	400	600	800	1000	VOLTS
VRMS	35	70	140	280	420	560	700	VOLTS
VDC	50 100 200 400 600 800 1000						VOLTS	
l(AV)	1.5							Amps
lfsm	60.0							Amps
VF	1.1							Volts
lR	5.0 50.0						μΑ	
Сı	20.0							pF
RθJA	50.0						°C/W	
Т <sub>J</sub> ,Тsтс	-65 to +175							°C
	VRRM VRMS VDC I(AV) IFSM VF IR CJ RθJA	VRRM   50   VRMS   35   VDC   50   I(AV)   IFSM   VF   IR   CJ   R@JA	151   152   VRRM   50   100   VRMS   35   70   VDC   50   100   I(AV)   IFSM   VF   IR   CJ   R@JA   R@JA   R.	VRRM   50   100   200     VRMS   35   70   140     VDC   50   100   200     I(AV)     IFSM   VF     R   CJ     R   R9JA	V <sub>RRM</sub>   50   100   200   400   V <sub>RMS</sub>   35   70   140   280   V <sub>DC</sub>   50   100   200   400   I <sub>A</sub> V <sub>DC</sub>   50   100   200   400   I <sub>A</sub> V <sub>D</sub>   1.5   I <sub>FSM</sub>   60.0   60.0   V <sub>F</sub>   1.1   I <sub>R</sub>   50.0   C <sub>J</sub>   20.0   R <sub>θJA</sub>   50.0	VRRM   50   100   200   400   600	VRM   151   152   153   154   155   156     VRM   50   100   200   400   600   800     VRMS   35   70   140   280   420   560     VDC   50   100   200   400   600   800     I(AV)   1.5     IFSM   60.0     VF   1.1     IR   50.0     CJ   20.0     Rejja   50.0	VRRM   50   100   200   400   600   800   1000     VRMS   35   70   140   280   420   560   700     VDC   50   100   200   400   600   800   1000     I(AV)   1.5     IFSM   60.0     VF   1.1     IR   50.0     CJ   20.0     Reja   50.0

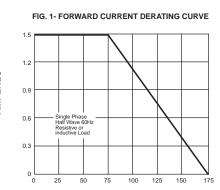
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0 VD.C.

2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

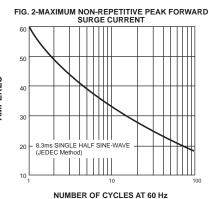
## MDD ELECTRONIC

### **RATINGS AND CHARACTERISTIC CURVES RL151 THRU RL157**

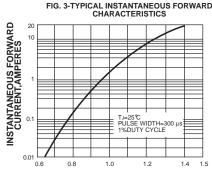


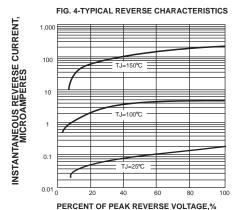




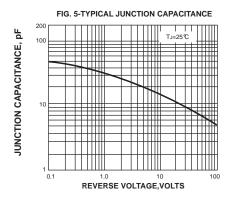


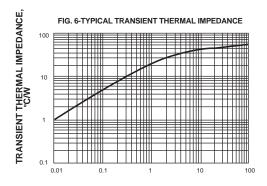
AMBIENT TEMPERATURE,°C





INSTANTANEOUS FORWARD VOLTAGE, VOLTS





t,PULSE DURATION,sec.

### MDD ELECTRONIC