RL201 THRU RL207

GENERAL PURPOSE PLASTIC RECTIFIERS Reverse Voltage – 50 to 1000 Volts Forward Current – 2.0 Amperes

Features

- High surge current capability
- 2.0 ampere operation at T_A = 75°C with no thermal runaway
- Low reverse leakage
- Construction utilizes void-free molded plastic technique.
- High temperature soldering guaranteed:
 250°C/10 seconds, 0.375" (9.5mm) lead length,
 5 lbs (2.3kg) tension

Mechanical Data

- Case: Molded plastic, DO-15.
- Terminals: Plated axial leads, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end.
- Mounting Position: Any.

DO-15

Dimensions in mm

Absolute Maximum Ratings and Characteristics @ 25 ℃ unless otherwise specified.

	Symbols	RL201	RL202	RL203	RL204	RL205	RL206	RL207	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward current									
at T _A = 75 °C	$I_{(AV)}$	2							Amps
Peak forward surge current									
8.3mS single half sine-wave superimposed on rated load	I _{FSM}	I _{FSM} 70						Amps	
(MIL-STD-750D 4066 method)									
Maximum instantaneous forward voltage	VF	1							Volts
at I _{FM} = 2.0A , T _A = 25°C (Note 2)	VF								
Maximum DC reverse current $T_A = 25^{\circ}C$	l _a	I _R 50						μА	
at rated DC blocking voltage $T_A = 100$ °C	'R								
Typical thermal resistance	R _{eJA}	40						°C/W	
Typical junction capacitance (Note 1)	CJ	20						pF	
Operating and storage temperature range	T_J , T_S	-65 to +175						°C	

Notes:

- (1) Measured at 1MH_Z and applied reverse voltage of 4volts
- (2) Pulse test: pulse width 300 uSec, Duty cycle 1%.



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