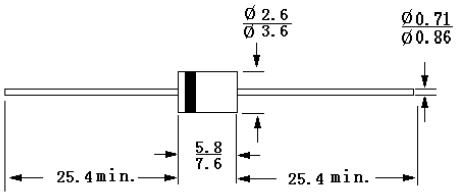
RL201 THRU RL207

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

DO-15



Dimensions in mm

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.

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	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward current at T_A = 75℃	$I_{(AV)}$	2							A
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I_{FSM}	70							A
Maximum instantaneous forward voltage at I_{FM} = 2.0A , T_A = 25℃ (Note 2)	V_F	1							V
Maximum DC reverse current at rated DC blocking voltage T_A = 25℃	I_R	5							μA
T_A = 100℃		50							
Typical thermal resistance	$R_{\theta JA}$	40							℃/W
Typical junction capacitance (Note 1)	C_J	20							pF
Operating and storage temperature range	T_J , T_{Stg}	-65 to +175							℃

Notes:(1) Measured at 1MH_Z and applied reverse voltage of 4volts

(2) Pulse test: pulse width 300 uSec, Duty cycle 1%.

Dated : 27/02/2003