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RLT904-30MG

Laser Diode Technical Data

Features

- Index Guided MQW Structure
- Wavelength : 904 nm (Typ.)
- Optical Power : 30 mW CW
- Threshold Current : 50 mA (Typ.)
- Package Style : TO-18 (5.6 mmØ)

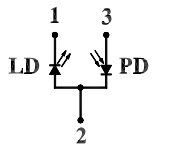
ABSOLUTE MAXIMUM RATINGS (Tc=25 °C)

DESCRIPTION	SYMBOL	RATED VALUE
Optical Power (mW)	P_o	**30**
Operation Temperature (°C)	T_{op}	**-10 to +50**
Storage Temperature (°C)	T_{stg}	**-40 to +85**
LD Reverse Voltage (V)	V_{LDR}	**2**
PD Reverse Voltage (V)	V_{PDR}	**30**

OPTICAL AND ELECTRICAL CHARACTERISTICS (Tc=25 °C)

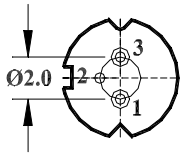
DESCRIPTION	SYMBOL	MIN.	TYPICAL	MAX.	TEST CONDITION
Lasing Wavelength (nm)	λ_p	**890**	**904**	**920**	P_o=30mW
Threshold Current (mA)	I_{th}	**30**	**50**	**70**	P_o=30mW
Operating Current (mA)	I_{op}	**50**	**80**	**100**	P_o=30mW
Operating Voltage (V)	V_{op}	**1.8**	**2.0**	**2.5**	P_o=30mW
Monitor Current (mA)	I_m	**0.2**	**0.5**	**1.5**	P_o=30mW, V_R=5V
Slope Efficiency (mW/mA)	η	**0.5**	**0.7**	**0.9**	***
Beam Divergence ∥ (°)	$\theta\parallel$	**8**	**10**	**12**	P_o=30mW
Beam Divergence ⊥ (°)	$\theta\perp$	**25**	**30**	**40**	P_o=30mW
Astigmatism (μm)	A_s	*	**11**	*	P_o=30mW, NA=0.4

Pin Connection

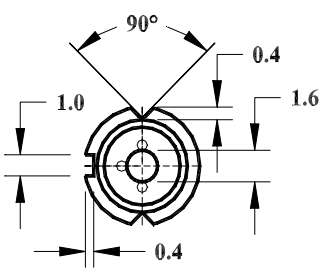


1. Laser diode cathode
2. Laser diode anode
   Photodiode cathode
3. Photodiode anode

* Case and Pin no. 2 are common



Bottom View



Top View