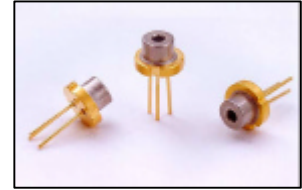


ROITHNER LASERTECHNIK

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RLT904-05MG

TECHNICAL DATA



Infrared Laserdiode

Structure: index guided, single transverse mode

Lasing wavelength: typ. 904 nm

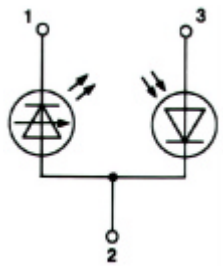
Output power: 5 mW

Package: 5.6 mm, TO-18

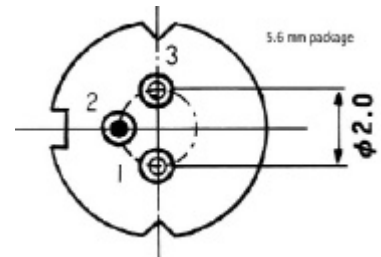


NOTE!
 LASERDIODE
 MUST BE COOLED!

PIN CONNECTION:



- 1) Laser diode cathode
- 2) Laser diode anode and photodiode cathode
- 3) Photodiode anode



Absolute Maximum Ratings (Tc = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Optical Output Power	P_o	7	mW
LD Reverse Voltage	$V_{R(LD)}$	2	V
PD Reverse Voltage	$V_{R(PD)}$	30	V
Operation Case Temperature	T_C	-10 .. +60	°C
Storage Temperature	T_{STG}	-40 .. +85	°C

Optical-Electrical Characteristics (Tc = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Threshold Current	I_{th}	cw		15	20	mA
Operation Current	I_{op}	$P_o = 5 \text{ mW}$		25	30	mA
Operating Voltage	V_{op}	$P_o = 5 \text{ mW}$		1.6	1.8	V
Lasing Wavelength	λ_p	$P_o = 5 \text{ mW}$	895	904	910	nm
Beam Divergence	$\theta_{//}$	$P_o = 5 \text{ mW}$	7	8	12	°
Beam Divergence	θ_{\perp}	$P_o = 5 \text{ mW}$	30	33	38	°
Slope Efficiency	η	cw	0.5	0.7	1	mW/mA
Monitor Current	I_m	$P_o = 5 \text{ mW}$	200	400	500	μA