

ROITHNER LASERTECHNIK

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RLT63100GOP

TECHNICAL DATA



High Power Visible Wavelength Laserdiode

Structure: **AlGaInP**

Lasing wavelength: **635 nm, multi mode**

Optical power: **100 mW**

Package: **9 mm**

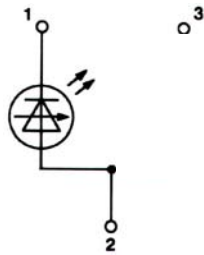
NOTE!

**LASERDIODE
MUST BE COOLED!**

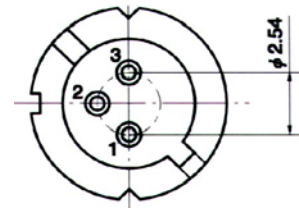


ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICE

PIN CONNECTION:



- 1) Laser diode cathode
- 2) Laser diode anode
- 3) n.c.



Absolute Maximum Ratings (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Optical Output Power	P_o	110	mW
LD Reverse Voltage	$V_{R(LD)}$	2	V
PD Reverse Voltage	$V_{R(PD)}$	---	V
Operation Case Temperature	T_C	-10 .. +20	°C
Storage Temperature	T_{STG}	-40 .. +85	°C

Optical-Electrical Characteristics (Tc = 15°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Optical Output Power	P_o	kink free		100		mW
Threshold Current	I_{th}	cw	200	250	300	mA
Operation Current	I_{op}	$P_o = 100$ mW	350	400	550	mA
Operating Voltage	V_{op}	$P_o = 100$ mW	2.1	2.2	2.4	V
Lasing Wavelength	λ	$P_o = 100$ mW	625	630	635	nm
Beam Divergence	$\theta_{//}$	$P_o = 100$ mW	8	10	11	°
Beam Divergence	θ_{\perp}	$P_o = 100$ mW	25	31	40	°
Monitor Current	I_m	$P_o = 100$ mW, $V_r = 5$ V		---		μA
Slope Efficiency	η	$P_o = 100$ mW	0.8	0.9		W/A