ROITHNER LASERTECHNIK

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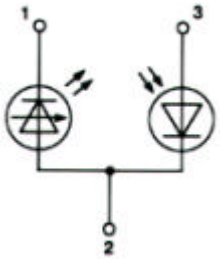
RLT6620G TECHNICAL DATA

High Power Visible Wavelength Laserdiode

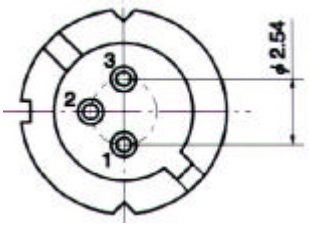
NOTE!
LASERDIODE
MUST BE COOLED!

Structure: **AlGaInP, index guided**
Lasing wavelength: **660 nm typ., singlemode**
Max. optical power: **20 mW**
Package: **9 mm**

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	20	mW
LD Reverse Voltage	$V_{R(LD)}$	2	V
PD Reverse Voltage	$V_{R(PD)}$	30	V
Operation Case Temperature	T_C	-10 .. +40	°C
Storage Temperature	T_{STG}	-40 .. +85	°C

Optical-Electrical Characteristics (Tc = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Optical Output Power	P_o	kink free			20	mW
Threshold Current	I_{th}	cw	25	50	75	mA
Operation Current	I_{op}	P_o = 20 mW	50	65	80	mA
Operating Voltage	V_{op}	P_o = 20 mW		2.5	2.7	V
Lasing Wavelength	λ_p	P_o = 20 mW	650	660	670	nm
Beam Divergence	$\theta_{//}$	P_o = 20 mW	5	8	11	°
Beam Divergence	$\theta_{\perp}$	P_o = 20 mW	25	31	37	°
Monitor Current	I_m	P_o = 20 mW	5	20	100	µA
Astigmatism	A_s	P_o = 20 mW		5		µm