ROITHNER LASERTECHNIK

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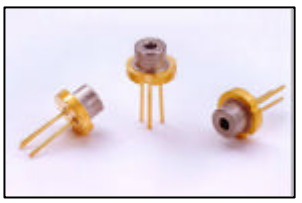


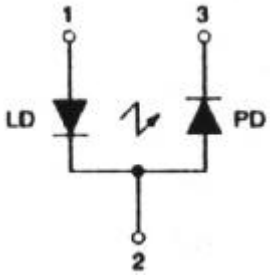
RLT6630MG TECHNICAL DATA

High Power Visible Wavelength Laserdiode

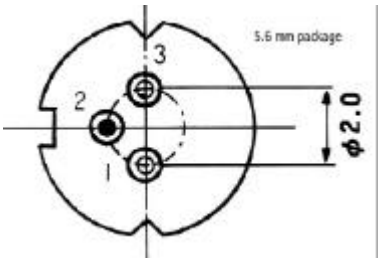
Structure: **AlGaInP, index guided, single transverse mode**
Lasing wavelength: **658 nm typ.**
Max. optical power: **30 mW cw**
Package: **5.6 mm**

NOTE!
LASERDIODE
MUST BE COOLED!

PIN CONNECTION:



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



Maximum Ratings (Tc=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Optical Output Power cw	P_o	35	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}	-10 .. +100	°C

Optical-Electrical Characteristics (Tc = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Optical Output Power	P_o	kink free		30	50 *)	mW
Threshold Current	I_{th}	cw		45	70	mA
Operation Current	I_{op}	P_o = 30 mW		85	120	mA
Operating Voltage	V_{op}	P_o = 30 mW		2.7	3.2	V
Lasing Wavelength	λ_p	P_o = 30 mW	645	658	666	nm
Beam Divergence	$\theta_{//}$	P_o = 30 mW	7	8.5	11	°
Beam Divergence	$\theta_{\perp}$	P_o = 30 mW	17	22	26	°
Slope efficiency	η	P_o = 30 mW		0.8		mW/mA
Monitor Current	I_m	P_o = 30 mW, V_r=5V	0.05	0.3	2.5	mA

*) Note: Duty cycle less than 50%, pulse width less than 1µs