

# ROITHNER LASERTECHNIK

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## RLT6650G TECHNICAL DATA



### High Power Visible Laserdiode

Structure: High Efficiency MOVCD Quantum Well Design

Lasing wavelength: 660 nm typ., multimode

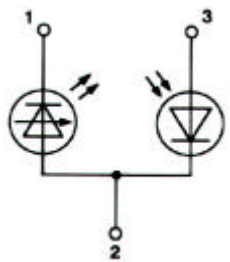
Output power: 50 mW

Package: 9 mm

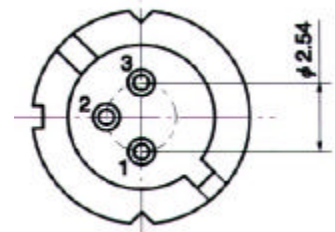


**NOTE!**  
LASERDIODE  
MUST BE COOLED!

#### 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	$P_o$	55	mW
LD Reverse Voltage	$V_{R(LD)}$	2	V
PD Reverse Voltage	$V_{R(PD)}$	30	V
Operating 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	$P_o$	cw operation		50		mW
Threshold Current	$I_{th}$	cw operation	70	85	120	mA
Operation Current	$I_{op}$	$P_o = 50$ mW	135	160	220	mA
Operation Voltage	$V_{op}$	$P_o = 50$ mW	2.0	2.1	2.2	V
Lasing Wavelength	$\lambda_p$	$P_o = 50$ mW	655	660	665	nm
Beam Divergence	$\theta_{//}$	$P_o = 50$ mW	10	12	14	°
Beam Divergence	$\theta_{\perp}$	$P_o = 50$ mW	20	25	30	°
Lasing Aperture	A	$P_o = 50$ mW		10 x 1		$\mu\text{m}^2$
Monitor Current	$I_m$	$P_o = 50$ mW	0.35	0.5	1.5	mA