ROITHNER LASERTECHNIK

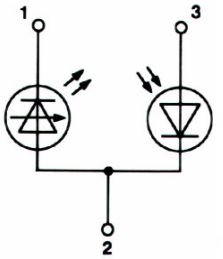
A-1040 WIEN, FLEISCHMANNGASSE 9
TEL: +43 -1- 586 52 43 FAX: +43 -1- 586 41 43
e-mail: rlt@iddc.via.at http://www.iddc.via.at/kunden/laser/home.htm

RLT6620G TECHNICAL DATA

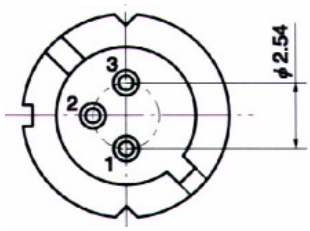
High Power Visible Wavelength Laserdiode

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

PIN CONNECTION:



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



AbsoluteMaximum 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}		25	50	75	mA
Operation Current	I_{op}	P_o =20mW		65	80	mA
Operating Voltage	V_{op}	P_o =20mW		2.5	2.7	V
Lasing Wavelength	l_p	P_o =20mW	650	660	670	nm
Beam Divergence	q_1	P_o =20mW	5	8	11	°
Beam Divergence	q_2	P_o =20mW	25	31	37	°
Monitor Current	I_m	P_o =20mW		20		µA
Astigmatism	A_s	P_o =20mW		5		µm