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RLT6620G TECHNICAL DATA



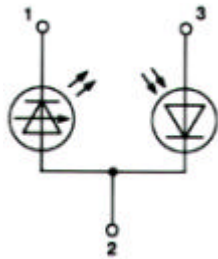
High Power Visible Wavelength Laserdiode

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

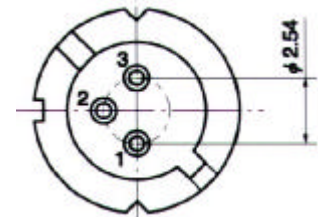
NOTE!
 LASERDIODE
 MUST BE COOLED!



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	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}	$P_o = 20 \text{ mW}$	50	65	80	mA
Operating Voltage	V_{op}	$P_o = 20 \text{ mW}$		2.5	2.7	V
Lasing Wavelength	λ_p	$P_o = 20 \text{ mW}$	650	660	670	nm
Beam Divergence	$\theta_{//}$	$P_o = 20 \text{ mW}$	5	8	11	°
Beam Divergence	θ_{\perp}	$P_o = 20 \text{ mW}$	25	31	37	°
Monitor Current	I_m	$P_o = 20 \text{ mW}$	5	20	100	µA
Astigmatism	A_s	$P_o = 20 \text{ mW}$		5		µm