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RLT6403G TECHNICAL DATA

Short Wavelength Laserdiode

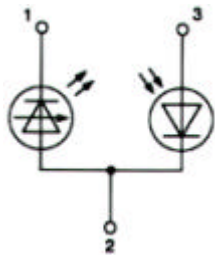
Structure: **AlGaInP**, index guided

Lasing wavelength: typ. **640 nm**

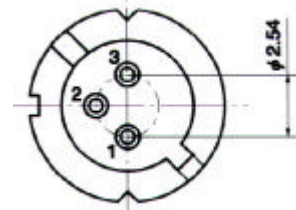
Max. optical power: **3 mW**

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	5	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			5	mW
Threshold Current	I_{th}		35	45	55	mA
Operation Current	I_{op}	$P_o = 3 \text{ mW}$	45	55	70	mA
Operating Voltage	V_{op}	$P_o = 3 \text{ mW}$	2.0	2.4		V
Lasing Wavelength	λ_p	$P_o = 3 \text{ mW}$		640	645	nm
Beam Divergence	$\theta_{//}$	$P_o = 3 \text{ mW}$	8	10	11	°
Beam Divergence	θ_{\perp}	$P_o = 3 \text{ mW}$	25	31	40	°
Monitor Current	I_m	$P_o = 3 \text{ mW}, V_r=5V$	5	10	20	µA
Slope Efficiency	η	mW/mA	0.1	0.3	0.5	
Astigmatism	A_s	$P_o = 3 \text{ mW}$		11		µm