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RLT6705G TECHNICAL DATA

Visible Wavelength Laserdiode

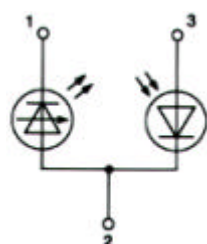
Structure: **AlGaInP**, index guided

Lasing wavelength: **670 nm**

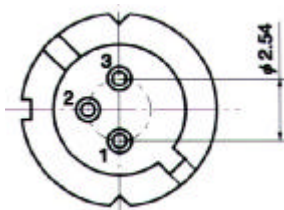
Max. optical power: **5 mW**

Package: **9 mm**

PIN CONNECTION:



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



Absolute Maximum Ratings (T_c=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 .. +60	°C
Storage Temperature	T _{STG}	-40 .. +85	°C

Optical-Electrical Characteristics (T_c = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Threshold Current	I _{th}	CW	-	30	60	mA
Operation Current	I _{op}	P _o = 5 mW	-	45	75	mA
Operating Voltage	V _{op}	P _o = 5 mW	-	2.5	2.6	V
Lasing Wavelength	λ _p	P _o = 5 mW	-	670	680	nm
Beam Divergence	θ	P _o = 5 mW	6	8	10	°
Beam Divergence	θ _⊥	P _o = 5 mW	25	35	40	°
Off Axis Angle	Δθ _⊥	-	-	-	± 3	°
Off Axis Angle	Δθ	-	-	-	± 3	°
Monitor Current	I _m	P _o = 5 mW	0.2	1.2	-	mA
Astigmatism	A _s	P _o = 5 mW	-	8	-	μm