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RLT6705MG TECHNICAL DATA

Visible Wavelength Laserdiode

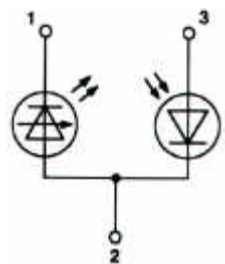
Structure: **AlGaInP**, index guided

Lasing wavelength: **670 nm**

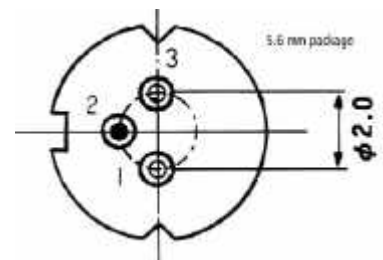
Max. optical power: **5 mW**

Package: **5.6 mm**

PIN CONNECTION:



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



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 .. +60	°C
Storage Temperature	T_{STG}	-40 .. +85	°C

Optical-Electrical Characteristics (Tc = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Threshold Current	I_{th}			30	40	mA
Operation Current	I_{op}	$P_o = 5 \text{ mW}$		45	60	mA
Operating Voltage	V_{op}	$P_o = 5 \text{ mW}$		2.2	2.7	V
Lasing Wavelength	λ_p	$P_o = 5 \text{ mW}$	665	670	680	nm
Beam Divergence	$\theta_{//}$	$P_o = 5 \text{ mW}$	6	8	10	°
Beam Divergence	θ_{\perp}	$P_o = 5 \text{ mW}$	25	33	40	°
Astigmatism	As	$P_o = 5 \text{ mW}$, NA=0.4		8		μm
Monitor Current	I_m	$P_o = 5 \text{ mW}$, $V_r = 5 \text{ V}$	0.4	1.2	2.0	mA