

ROITHNER LASERTECHNIK

A-1040 VIENNA, SCHOENBRUNNER STRASSE 7, AUSTRIA

TEL: +43 -1- 586 52 43-0 FAX: +43 -1- 586 52 43-44

e-mail: office@roithner-laser.com <http://www.roithner-laser.com>

RLT6705MG TECHNICAL DATA

Visible Wavelength Laserdiode

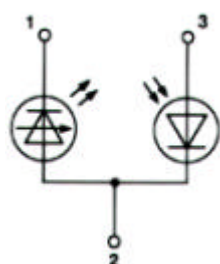
Structure: **AlGaInP**, index guided

Lasing wavelength: **670 nm**

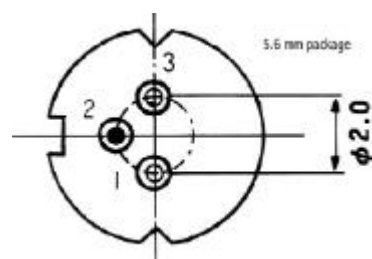
Max. optical power: **5 mW**

Package: **5.6 mm**

PIN CONNECTION:



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



Maximum Ratings (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}			30	40	mA
Operation Current	I _{op}	P _o = 5 mW		45	60	mA
Operating Voltage	V _{op}	P _o = 5 mW		2.2	2.7	V
Lasing Wavelength	λ _p	P _o = 5 mW	665	670	680	nm
Beam Divergence	θ	P _o = 5 mW	6	8	10	°
Beam Divergence	θ _⊥	P _o = 5 mW	25	33	40	°
Astigmatism	As	P _o = 5 mW, NA = 0.4		8		μm
Monitor Current	I _m	P _o = 5 mW, V _r = 5 V	0.4	1.2	2.0	mA