

ROITHNER LASERTECHNIK

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RLT6815MG TECHNICAL DATA



Visible Wavelength Laserdiode

Structure: **AlGaInP**, index guided, single transverse mode

Lasing wavelength: **typ. 685 nm**

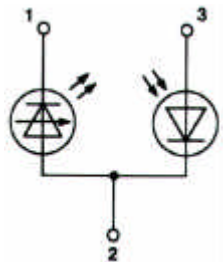
Max. optical power: **15 mW**

Package: **5.6 mm**

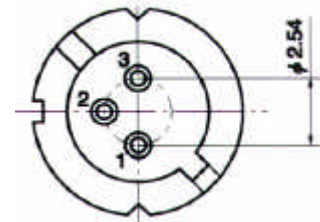


NOTE!
 LASERDIODE
 MUST BE COOLED!

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	20	mW
LD Reverse Voltage	V _{R(LD)}	2	V
PD Reverse Voltage	V _{R(PD)}	30	V
Operation Case Temperature	T _C	-10 .. +50	°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	cw		15		mW
Threshold Current	I _{th}	cw	25	30	40	mA
Operation Current	I _{op}	P _o = 15 mW	70	80	90	mA
Operating Voltage	V _{op}	P _o = 15 mW	2.5	2.6	2.7	V
Lasing Wavelength	λ _p	P _o = 15 mW	680	685	690	nm
Beam Divergence	θ _{//}	P _o = 15 mW	9	11	13	°
Beam Divergence	θ _⊥	P _o = 15 mW	25	28	33	°
Monitor Current	I _m	P _o = 15 mW, V _r =5V	250	350	450	μA