

ROITHNER LASERTECHNIK

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RLT6415G

TECHNICAL DATA

High Power Visible Wavelength Laserdiode

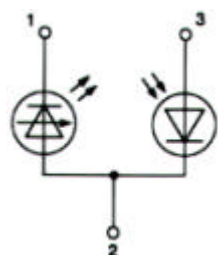
Structure: **AlGaInP**, index guided

Lasing wavelength: **640 nm**

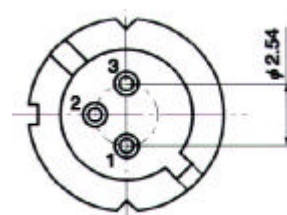
Max. optical power: **15 mW**

Package: **9mm**

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	15	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 (T_c = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Optical Output Power	P _o	kink free		15		mW
Threshold Current	I _{th}		45	60	80	mA
Operation Current	I _{op}	P _o = 15mW		65	85	mA
Operating Voltage	V _{op}	P _o = 15mW		2.5	2.6	V
Lasing Wavelength	I _p	P _o = 15mW		640	645	nm
Beam Divergence	q ₁	P _o = 15mW	6	9	16	°
Beam Divergence	q ₂	P _o = 15mW	25	31	37	°
Monitor Current	I _m	P _o = 15mW, V _f = 5V	10	100		μA
Astigmatism	A _s	P _o = 15mW		11		μm