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RLT6520G

TECHNICAL DATA

High Power Visible Wavelength Laserdiode

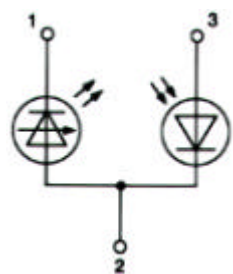
Structure: **AlGaInP**, index guided

Lasing wavelength: **650 nm**

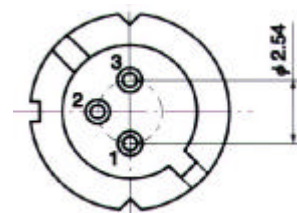
Max. optical power: **20 mW**

Package: **9mm G (or 5.6mm MG)**

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	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 (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}		25	40	60	mA
Operation Current	I _{op}	P _o = 20mW	40	60	70	mA
Operating Voltage	V _{op}	P _o = 20mW		2.5	2.6	V
Lasing Wavelength	λ _p	P _o = 20mW		650	655	nm
Beam Divergence	q ₁	P _o = 20mW	6	9	16	°
Beam Divergence	q ₂	P _o = 20mW		30		°
Monitor Current	I _m	P _o = 20mW	10	100		μA

Astigmatism	A_s	$P_o = 20\text{mW}$		11		μm
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