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RLT6650GLI TECHNICAL DATA



High Power Visible Laserdiode

Structure: High Efficiency MOVCD Quantum Well Design

Lasing wavelength: 655 nm typ. multimode

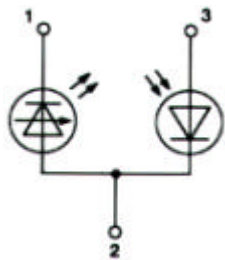
Output power: 50 mW

Package: 9 mm

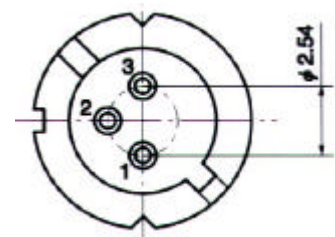


NOTE!
LASERDIODE
MUST BE COOLED!

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	60	mW
LD Reverse Voltage	V _{R(LD)}	2	V
PD Reverse Voltage	V _{R(PD)}	30	V
Operating 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
Threshold Current	I _{th}	cw		120	135	mA
Operation Current	I _{op}	P _o = 50 mW		180	250	mA
Operation Voltage	V _{op}	P _o = 50 mW	2.0	2.2	2.5	V
Slope Efficiency	η	cw	0.6	0.7	1.0	W/A
Lasing Wavelength	λ _p	P _o = 50 mW		655	660	nm
Beam Divergence	θ _{//}	P _o = 50 mW	5	7	14	°
Beam Divergence	θ _⊥	P _o = 50 mW	30	38	40	°
Lasing Aperture	A	P _o = 50 mW		20x1		μm ²
Monitor Current	I _m	P _o = 50 mW		0.5	2.0	mA