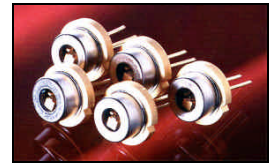


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RLT68250G TECHNICAL DATA



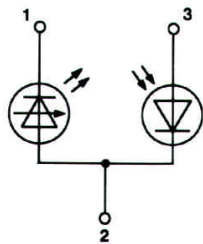
High Power Visible Wavelength Laserdiode

Structure: **AlGaInP/GaAs**, Aperture: **1 x 50 μm**
Lasing wavelength: **typ. 685 nm**
Max. optical power: **270 mW**
Package: **9 mm G**

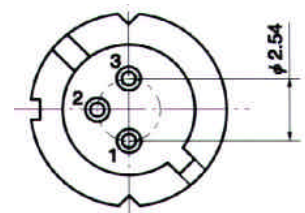
NOTE!
LASERDIODE
MUST BE COOLED!



PIN CONNECTION:



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



Absolute Maximum Ratings (Tc=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Optical Output Power	P_o	270	mW
LD Reverse Voltage	$V_{R(LD)}$	0.5	V
PD Reverse Voltage	$V_{R(PD)}$	5	V
Operation Case Temperature	T_c	-20 .. +30	°C
Storage Temperature	T_{STG}	-40 .. +70	°C

Optical-Electrical Characteristics (Tc = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Optical Output Power	P_o	kink free	250		270	mW
Threshold Current	I_{th}		120	150	170	mA
Operation Current	I_{op}	$P_o = 250 \text{ mW}$	400	450	520	mA
Operating Voltage	V_{op}	$P_o = 250 \text{ mW}$	2.2	2.3	2.5	V
Lasing Wavelength	λ_p	$P_o = 250 \text{ mW}$	678	685	690	nm
Beam Divergence	$\theta_{//}$	$P_o = 250 \text{ mW}$	3	4	7	°
Beam Divergence	$\theta_{\perp}$	$P_o = 250 \text{ mW}$	30	40	45	°
Monitor Current	I_m	$P_o = 250 \text{ mW}$	200	500	1200	μA