

ROITHNER LASERTECHNIK

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RLT1060-100GS TECHNICAL DATA



High Power Infrared Laser Diode

Lasing mode structure: **single mode**

Lasing wavelength: **typ. 1060 nm**

Optical power: **100 mW**

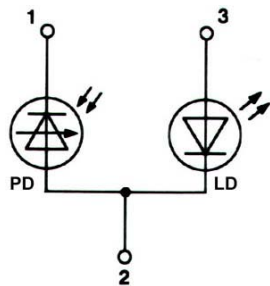
Package: **9 mm (SOT-148)**

NOTE!

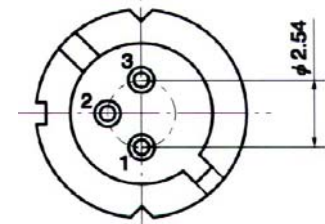
LASERDIODE
MUST BE COOLED!



PIN CONNECTION:



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



Absolute Maximum Ratings (T_c = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Optical Output Power	P _o	120	mW
LD Reverse Voltage	V _{R(LD)}	1.5	V
PD Reverse Voltage	V _{R(PD)}	10	V
Operating Temperature	T _C	-20 .. +40	°C
Storage Temperature	T _{STG}	-40 .. +70	°C

Optical-Electrical Characteristics (T_c = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Emitting Aperture	A	cw		1 x 5		μm ²
Optical Output Power	P _o	single mode		100		mW
Threshold Current	I _{th}	cw	25	30	35	mA
Operation Current	I _{op}	P _o = 100 mW	220	250	280	mA
Forward Voltage	U _f	P _o = 100 mW		1.8	1.9	V
Lasing Wavelength	λ _p	P _o = 100 mW	1062	1064	1067	nm
Spectral Width FWHM	Δλ	P _o = 100 mW		0.2	0.3	nm
Beam Divergence	θ _{//}	P _o = 100 mW		25		°
Beam Divergence	θ _⊥	P _o = 100 mW		40		°
Monitor Current	I _m	P _o = 100 mW	0.9	1.0	1.1	mA