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RLT1060-10G

- Infrared FP Laser Diode
- 1060 ± 10 nm, 10 mW CW
- Single Transverse Mode
- 9 mm TO package, flat window
- Built-in Monitor PD

RoHS COMPLIANT Pb-Free

Description

RLT1060-10G is a infrared FP Laser Diode emitting at typical 1060 nm with rated output power of 10 mW CW at room temperature. The 9 mm TO package includes a cap and flat window, and contains a built in **monitor PD**.

Maximum Ratings

Parameter	Symbol	Values		Unit
		Min.	Max.	
Optical Output Power	P_O			mW
Operating Temperature	T_{CASE}	-40	+50	°C
Storage Temperature	T_{STG}	-40	80	°C
Soldering Temperature	T_{SOLD}		180	°C

Specifications (at 25°C)

Parameter	Symbol	Values			Unit
		Min.	Typ.	Max.	
Central Wavelength	λ_C	1050	1060	1070	nm
Spectral Width (FWHM)	$\Delta\lambda$	-	-	5	nm
Optical Output Power	P_O	-	10	-	mW
Emitting Area	W x H		5 x 1		µm
Threshold Current	I_{TH}	-	-	30	mA
Forward Current	I_{OP}	-	-	50	mA
Forward Voltage	U_{OP}	-	1.3	1.5	V
Beam Divergence	$\Theta\parallel$	5	7	9	deg.
Beam Divergence	$\Theta\perp$	35	40	45	deg.
Mode Structure			SM		-
Monitor Current	I_M	1	-	1000	µA

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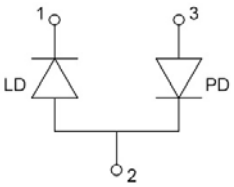
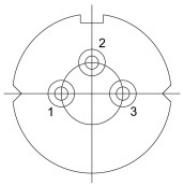
Electrical Connection

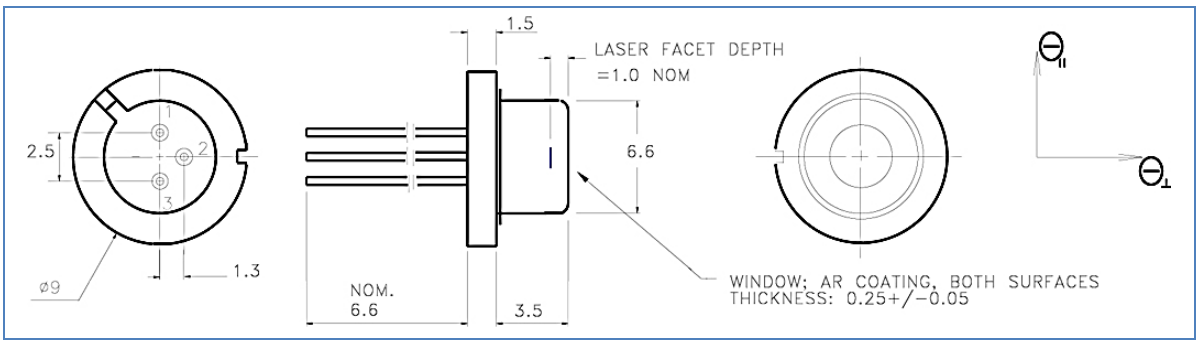
Lead	Description
PIN 1	LD Cathode
PIN 2	LD Anode, PD Cathode, Case Ground
PIN 3	PD Anode





Bottom View

Drawing



All dimensions in mm

Mounting Instruction

In order to maintain lifetime and stability of the laser diode it is essential to provide efficient heat management. Heat dissipation is possible through the base plate only. For long time stable operation proper contact between laser diode base plate and heat sink is mandatory.

Safety Advice

This laser module emits highly concentrated ultra violet light which can be **hazardous to the human eye**. This module is classified as **Class 3B laser product** according to **IEC 60825-1** and **21 CFR Part 1040.10 Safety Standards**. Actual laser light emitted and precautions necessary strongly depend on mode of operation.

This product is comply with 21 CFR Part 1040.10