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RLT1060-20G



AUSTRIA

TECHNICAL DATA

Infrared Laser Diode

Features

Lasing Mode Structure: Single mode Peak Wavelength: typ. 1060 nm Optical Ouput Power: 20 mW

Package: 9 mm



Electrical Connection

Pin Configuration				Bottom View		
10	10 03 n-type				2	
15	7700	PIN	Function			
rD 🖳	→ PD	1	LD Cathode		> • • <	
	26/	2	LD Anode, PD Cathode		1 3	
		3	PD Anode			
	02					

Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Value	Unit
CW Output Power	Po	20	mW
Maximum LD Current	l f	70	mA
Operating Case Temperature	Tc	-20 + 40	°C
Storage Temperature	T_{stg}	-40 +70	°C

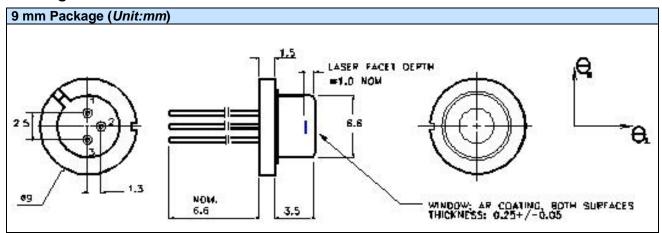
Specifications (Tc=25°C)

Item	Symbol	Condition	Min.	Тур.	Max.	Unit				
Optical Specification										
CW Output Power	Po	CW	ı	20	ı	mW				
Peak Wavelength	λ_{P}	$P_0 = 20 \text{ mW}$	1050	1060	1070	nm				
Spectral Width (FWHM)	Δλ	$P_0 = 20 \text{ mW}$				nm				
FWHM Beam Divergence	θ∥	$P_0 = 20 \text{ mW}$	-	7.5	-	deg				
FVVHIVI Bealli Divergence	θ⊥	$P_0 = 20 \text{ mW}$	-	43	ı	deg				
Emitting Aperature	WxH					μm				
Electrical Specification										
Threshold Current	I _{th}	CW	ı	30	ı	mA				
Operating Current	lop	$P_0 = 20 \text{ mW}$	ı	55	ı	mA				
Operating Voltage	Uop	$P_0 = 20 \text{ mW}$	ı	-	2	V				
Monitor Current	I _m	$P_0 = 20 \text{ mW}$				μA				
Monitor Voltage	Um	Po = 20 mW	•	-	5	V				

The above specifications are for reference purpose only and subjected to change without prior notice.



Package Dimensons



Safety of Laser light

 Laser Light can damage the human eyes and skin. Do not expose the eye or skin directly to any laser light and/or through optical lens. When handling the LDs, wear appropriate safety glasses to prevent laser light, even any reflections from entering to the eye. Focused laser beam through optical instruments will increase the chance of eye hazard.



These LDs are emitting invisible light.

Cautions

1. Operating methode

- This LD shall change its forward voltage requirement and optical ouput power according to temperature change. Also, the LD will require more operation current to maintain same ouput power as it degrades. In order to maintain output power, use of APC (Automatic Power Control) is recommended. Which use monitor feedback to adjust the operation current.
- Confirm that electrical spike current generated by swithing on and off does not exceed the maximum operating current level specified herein above as absolute maximum rating. Also, employ appropriat countermeasures to reduce chattering and/or overshooting in the circuit.

2. Static Electricity

• Static electricity or electrical surges will reduce and degrade the reliability of the LDs. It is recommended to use a wrist trap or anti-electrostatic glove when handeling the product.

3. Absolute Maximum Rating

Active layer of LDs shall have high current density and generate high electric field during its
operation. In order to prevent excessive damage, the LD must be operated strictly below
absolute maximum rating.

