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RLT1310-20MGS-B

- **Infrared Laser Diode**
- 1310 nm, 20 mW
- Single Mode
- TO-Can, 5.6 mm, Non-Spherical Lens





Description

RLT1310-20MGS-B is an infrared DFB laser diode with single mode emission at typically 1310 nm and low operating current. The LD comes in 5.6 mm TO-Can package with integrated PD and non-spherical lens.

Additional options like closer peak wavelength selection to ±3 nm, flat window or other pin configuration are available on request.

Maximum Rating*

Parameter	Symbol	Val	Unit	
		Min.	Max.	Unit
Reverse Voltage	V_{R}		2.0	V
Operating Temperature*	T_{OPR}	- 10	+ 50	°C
Storage Temperature*	T _{STG}	- 40	+ 85	°C
Soldering Temperature (max. 3s)	T_{SOL}		+ 260	°C

operating close to or outside these conditions may damage the device

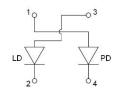
Electro-Optical Characteristics (TCASE = 25°C)

Parameter	Symbol	Values			Unit
		Min.	Тур.	Max.	Offic
Peak Wavelength *	λP	1300	1410	1320	nm
Optical Output Power	Po		20		mW
Spectral Width (FWHM)	λ		0.3	1.0	nm
Operating Voltage	V_{F}		1.4	1.7	V
Threshold Current	<i>I</i> _{th}		5	15	mA
Operating Current	/ F		80	90	mA
PD Current	I PD		0.5		mA



Electrical Connection

	Pin Configuration *
PIN#	Function
1	PD Anode
2	LD Cathode
3	LD Anode, Case
4	PD Cathode



Bottom View

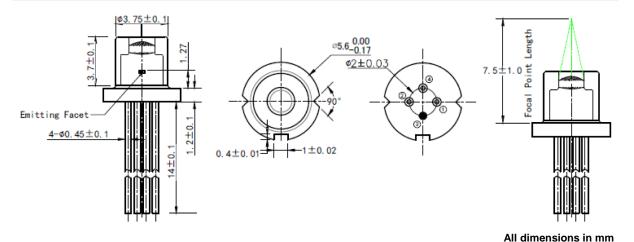


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^{*} optional: down to ±3 nm

^{*} subject to change

Outline Dimensions



Precautions

Safety

Caution: Laser light emitted from any laser diode may be **harmful to the human eye**. Avoid looking directly into the laser diode's aperture when the diode is in operation.

Note: The use of optical lenses with this laser diode will increase eye hazard

ESD caution

Always do handle laser diodes with extreme care to **prevent electrostatic discharge**, the primary cause of unexpected diode failure. To prevent ESD related failures, it is strongly advised to always **wearing wrist straps**, and **grounding all applicable work surfaces**, when handling laser diodes

Operating Considerations

It is strongly advised to only operate this laser diode with a current source. The current of a laser diode is an exponential function of the voltage across it. **Usage of current regulated drive circuits is mandatory.** Laser diodes may be damaged by excessive drive currents or switching transients

It is advised, to operate the laser diode at the lowest temperature possible, and to never exceed maximum specifications as outlined in the datasheet. Device degradation will accelerate with increased temperature. Proper heat sinking will greatly enhance stability and life time of the laser diode

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

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