

RLT1625-10MGS

- Infrared DFB Laser Diode
- 1625 nm, 10 mW
- Single transverse mode
- 5.6mm TO-Can with flat glass window

Description

RLT1625-10MGS is an infrared **distributed feedback (DFB)** laser diode, with **single transverse mode** emission at typically 1625 nm and low operating current. **RLT1625-10MGS** comes in a 5.6 mm TO-Can with flat glass window and **integrated PD**. Variants with non-spherical glass lens and reduced peak wavelength tolerance of ±5 nm and ± 3nm are available on request.

Maximum Rating*

Parameter	Symbol	Val	Unit	
		Min.	Max.	Unit
Reverse Voltage	VR		2	V
Reverse PD Voltage	V _{RP}		15	V
Operating Temperature*	TOPR	- 10	+ 50	°C
Storage Temperature*	TSTG	- 40	+ 85	°C
Soldering Temperature (max. 3s)	T_{SOL}		+ 260	°C

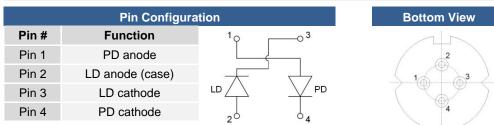
* operating close to or outside these conditions may damage the device

Electro-Optical Characteristics (TCASE = 25°C)

Parameter		Symbol	Values			Unit
			Min.	Тур.	Max.	Unit
Peak Wavelength		λP	1615	1625	1635	nm
Optical Output Power		Po		10		mW
Spectral Width (FWHM)		λ		0.3	1	nm
Operating Voltage		VF		1.4	1.7	V
Threshold Current		<i>I</i> th		5	15	mA
Operating Current		IF		80	90	mA
Beam Divergence (FWHM)	parallel	θII		25		deg.
	perpendicular	θT		35		deg.

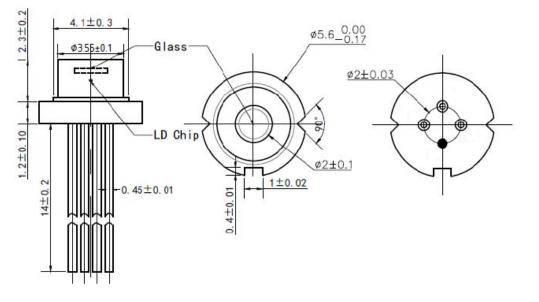


Electrical Connection





Outline Dimensions



All dimensions in mm

Precautions

Safety

Laser light emitted from any laser diode may be harmful to the human eye. Avoid looking directly into the laser diode's aperture. The use of optical lenses will increase eye hazard

ESD Caution

Always do handle laser diodes with care to prevent electrostatic discharge. We advise to wearing wrist straps, and grounding all applicable work surfaces, when handling laser diodes



Operating Considerations

Usage of current regulated drive circuits is mandatory We advise to operate this laser diode with a current source and heat sink, and to never exceed the maximum specifications as outlined in this datasheet.

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