

RLT1530-15MGS

- Infrared DFB Laser Diode
- 1530 nm, 15 mW
- Single transverse mode
- 5.6mm TO-Can with flat glass window

Description

RLT1530-15MGS is an infrared distributed feedback (DFB) laser diode, with single transverse mode emission at typically 1530 nm and low operating current. RLT1530-15MGS comes in a 5.6 mm TO-Can with flat glass window and integrated PD.

Maximum Rating*

Parameter	Symbol	Val	l lm it	
		Min.	Max.	Unit
Reverse Voltage	VR		2	V
Reverse PD Voltage	V _{RP}		15	V
Operating Temperature*	TOPR	- 20	+ 50	°C
Storage Temperature*	T _{STG}	- 40	+ 85	°C
Soldering Temperature (max. 3s)	T _{SOL}		+ 260	°C

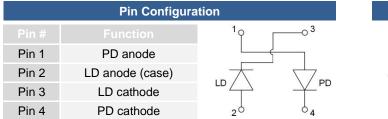
* operating close to or outside these conditions may damage the device

Electro-Optical Characteristics (TCASE = 25°C)

Parameter	Symbol	Values			Unit
		Min.	Тур.	Max.	Unit
Peak Wavelength	λ _P	1520	1530	1540	nm
Optical Output Power	Po		15		mW
Spectral Width (FWHM)	λ		0.3	1	nm
Beam Divergence (FWHM)	θII x θ⊥		25 x 35		deg
Operating Voltage	VF		1.4	1.7	V
Threshold Current	I _{th}		5	15	mA
Operating Current	I _F		90	100	mA
Reverse Current (PD)	I _{RP}		0.5		mA









Bottom View

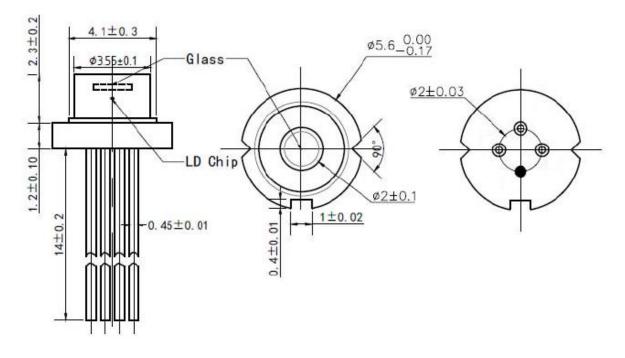
(**)**³







Outline Dimensions



All dimensions in mm

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 lifetime of the laser diode**

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