

RLT785-120MGSP

- Infrared Laser Diode
- 785 nm, 120 mW, built in PD
- Single Mode
- 5.6 mm TO Package, Flat Window





Description

RLT785-120MGSP is an IR laser diode, typically emitting at 785 nm. It features **single mode emission** and operating temperature range of up to 60°C. It is an efficient radiation source for many applications like laser projection, metrology, or use in the biomedical field. **RLT785-120MGSP** comes in 5.6 mm TO-Can package with **integrated monitor PD**.

Maximum Rating*

Davamatav	Symbol	Val	Unit	
Parameter		Min.	Max.	Unit
Reverse Voltage	V_{R}		2	V
Operating Temperature*	T_{OPR}	- 20	+ 60	°C
Storage Temperature*	T STG	- 40	+ 85	°C
Soldering Temperature (max. 3s)	T_{SOL}		+ 260	°C



Electro-Optical Characteristics (TCASE = 25°C)

Parameter		Symbol	Values			Unit
			Min.	Тур.	Max.	Offic
Peak Wavelength		λ_{P}	775	785	800	nm
Spectral Width		λ_{Δ}		2.0		nm
Optical Output Power		Po		120		mW
Operating Voltage		VF		2.0	2.4	V
Threshold Current		I th		35	65	mA
Operating Current		<i>l</i> F		150	170	mA
Monitor Current		/ M		0.2		mA
Slope Efficiency		η		1.0		W/A
Beam Divergence (FWHM)	parallel	ΘII	5	9	12	deg.
	perpendicular	θΤ	35	36	42	deg.



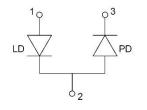
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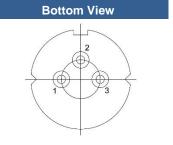
^{*} operating close to or outside these conditions may damage the device



Electrical Connection

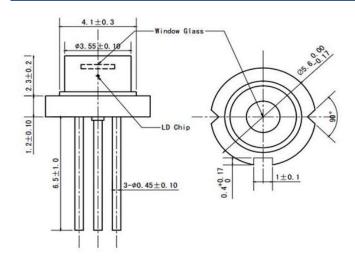
Pin Configuration Pin # Function Pin 1 LD Anode Pin 2 LD Cathode & PD Anode Pin 3 PD Cathode





Outline Dimensions

5.6 mm TO-Can



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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