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RLT395-300MGE

- **UV High Power Laser Diode**
- **395 nm, 300 mW**
- **Multi transverse mode**
- **5.6 mm TO-Can, Flat Window**

Description

RLT395-300MGE is a ultra-violet high power laser diode, typically emitting at 395 nm. It features multi transverse mode emission and operating temperature range of 0 to 30°C. It is an efficient radiation source for many applications like laser projection, holography, metrology, or use in the biomedical field. **RLT395-300MGE** comes in 5.6 mm TO-Can package **without PD.**

Maximum Rating*

Parameter	Symbol	Values Min.	Values Max.	Unit
Reverse Voltage	V_R		2	V
Operating Temperature*	T_{OPR}	- 0	+ 30	°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 (T_{CASE} = 25°C)

Parameter		Symbol	Values Min.	Values Typ.	Values Max.	Unit
Peak Wavelength		**λ_P**	**385**	**395**	**405**	**nm**
Spectral Width		λ_Δ		2.0		**nm**
Optical Output Power		P_O		300		mW
Operating Voltage		V_F		4.8	5.5	V
Threshold Current		I_{th}		130	200	mA
Operating Current		I_F		330	360	mA
Slope Efficiency		η		1.6		W/A
Spatial Mode			Multi transverse mode			
Beam Divergence (FWHM)	parallel	$\Theta_{\parallel}$		15	21	deg.
	perpendicular	$\Theta_{\perp}$		45	51	deg.

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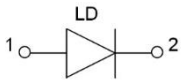
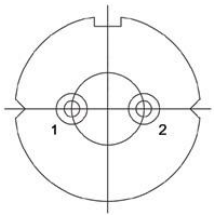
Electrical Connection

Pin Configuration (subject to change without notice)

Pin #	Function
Pin 1	LD Anode
Pin 2	LD Cathode

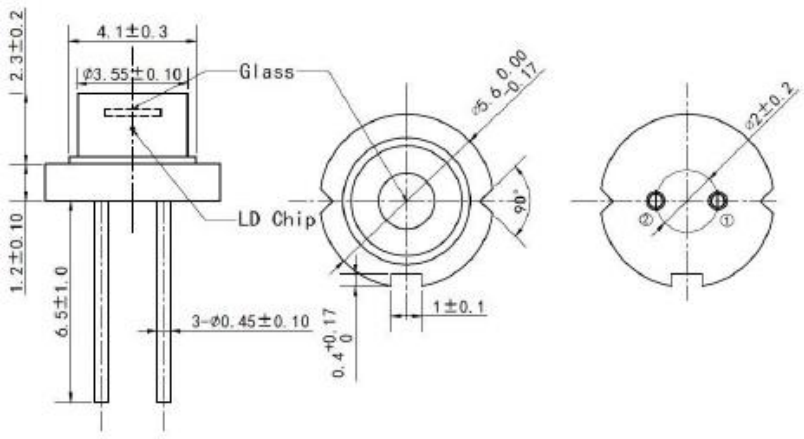


Bottom View



Outline Dimensions

TO5



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

Proper heat sinking will greatly enhance stability and lifetime of the laser diode