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SPL395-200-C50M

- **UV Pigtailed Laser Diode**
- **395 nm, 200 mW**
- **50 µm MM Fiber**
- **FC/PC Connector**

RoHS COMPLIANT Pb-Free

Description

SPL395-200-C50M is an ultra-violet pigtailed laser diode, typically emitting at 395 nm with an output power of 200 mW. It comes in a coaxial package with heat sink, and **50 µm multi-mode fiber** with FC/PC connector. Variants with different types of connectors are optionally available.

Maximum Rating

Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Voltage	V_R		2.0	V
Operating Temperature	T_{OPR}	0	+ 30	°C
Storage Temperature	T_{STG}	- 40	+ 85	°C
Soldering Temperature (max. 3s)	T_{SOL}		+ 260	°C

Electro-Optical Characteristics (T_{CASE} = 25°C)

Parameter		Symbol	Values			Unit
			Min.	Typ.	Max.	
Peak Wavelength		λ_P	385	395	405	nm
Output Power		P_O		200		mW
Spectral Width (FWHM)				2.0		nm
Operating Voltage		V_F		4.5	5.5	V
Threshold Current		I_{th}		130	200	mA
Operating Current		I_O		320	350	mA
Fiber Spec.	Type		Multi-Mode			
	Core diameter		50			µm
	Connector		FC/PC*			
	Length			80		cm

*SC / SMA905 available on request

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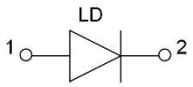
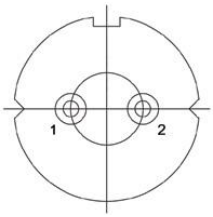
Electrical Connection

Pin Configuration*	
Pin #	**Function**
Pin 1	LD anode
Pin 2	LD cathode

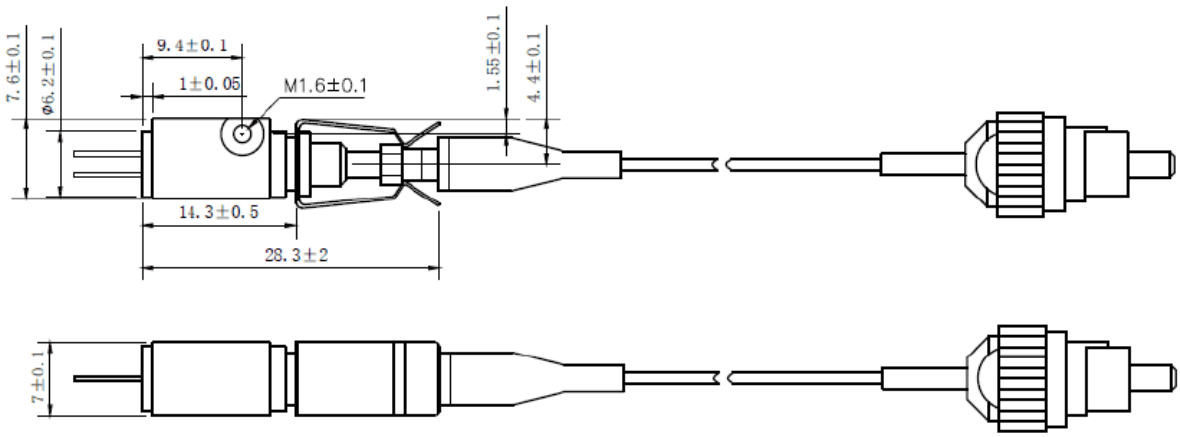
* subject to change



Bottom View



Outline Dimension



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.