



## SPL395-200-C50M

- UV Pigtailed Laser Diode
- 395 nm, 200 mW
- 50  $\mu\text{m}$  MM Fiber
- FC/PC Connector



### 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  $\mu\text{m}$  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  | $^{\circ}\text{C}$ |
| Storage Temperature             | $T_{STG}$ | - 40   | + 85  | $^{\circ}\text{C}$ |
| Soldering Temperature (max. 3s) | $T_{SOL}$ |        | + 260 | $^{\circ}\text{C}$ |

### Electro-Optical Characteristics ( $T_{CASE} = 25^{\circ}\text{C}$ )

| Parameter             | Symbol        | Values     |        |      | Unit          |
|-----------------------|---------------|------------|--------|------|---------------|
|                       |               | Min.       | Typ.   | Max. |               |
| Peak Wavelength       | $\lambda_P$   | 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     |      | $\mu\text{m}$ |
|                       | N.A.          |            | 0.22   |      |               |
|                       | Connector     |            | FC/PC* |      |               |
|                       | Length        |            | 80     |      | cm            |

\*FC/APC, SC, SMA905 available on request

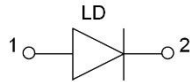




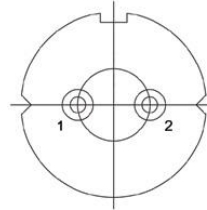
## Electrical Connection

### Pin Configuration\*

| Pin # | Function   |
|-------|------------|
| Pin 1 | LD anode   |
| Pin 2 | LD cathode |

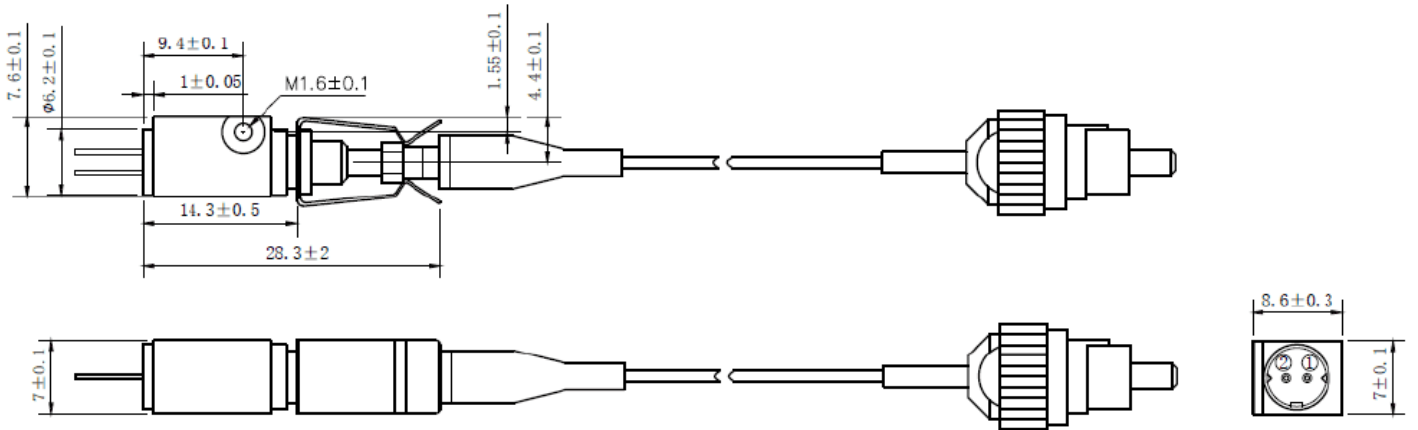


### Bottom View



\* subject to change

## 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.



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