# SPL405-30-3-PD

- **Violet Pigtailed Laser Diode**
- 405 nm, 30 mW
- 3 µm SM Fiber
- FC/PC connector
- **Heat Sink**







# Description

SPL405-30-3-PD is a violet pigtailed laser diode, typically emitting at 405 nm with an output power of 30 mW. It comes in a coaxial package with integrated heat sink, and 3 µm single mode fiber with FC/PC connector. Variants without heat sink and different types of connectors are optionally available.

## **Maximum Ratings**

Doromotor	Cumbal	Val	Hoit		
Parameter	Symbol	Min.	Max.	Unit	
Reverse Voltage	$V_{R}$		2.0	V	
PD Reverse Voltage	$V_{RPD}$		30	V	
Operating Temperature	$T_{OPR}$	- 10	+ 70	°C	
Storage Temperature	T <sub>STG</sub>	- 40	+ 85	°C	
Soldering Temperature (t <sub>max.</sub> 3s)	$T_{SOL}$		+ 260	°C	

# Electro-Optical Characteristics (TCASE = 25°C)

Parameter		Symbol	Values			Unit
			Min.	Тур.	Max.	Unit
Peak Wavelength		$\lambda_{P}$	395	405	415	nm
Spectral Width		$\lambda_{\Delta}$		2.0		nm
Output Power		Po		30		mW
Operating Voltage		VF		5.0	6.0	V
Threshold Current		<b>/</b> th		40	75	mA
Operating Current		lo		110	130	mA
PD Monitor Current		<i>I</i> PD		0.3		mA
Fiber Spec.	Туре		Single Mode			
	Core diameter		3			μm
	N.A.		0.12			
	Connector		FC/PC*			
	Length			80		cm

<sup>\*</sup> SC / SMA905 con. available on request

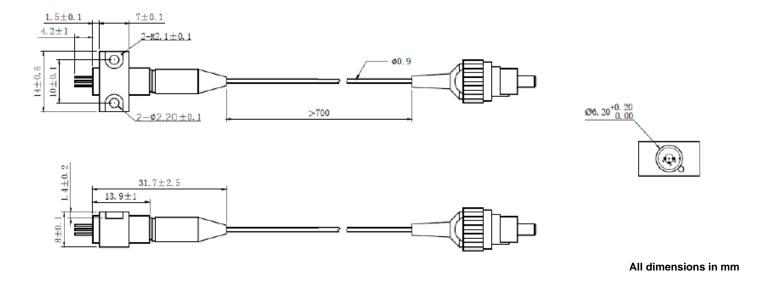
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## **Electrical Connection**

#### **Bottom View** Pin Configuration\* Pin# **Function** STATIC SENSITIVE DEVICES Pin 1 LD cathode HANDLE ONLY AT LD STATIC WORK STATIONS LD anode, PD cathode Pin 2 Pin 3 PD anode 62 subject to change

## **Outline Dimension**



### **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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