

SPL405-50-3-PD

- Violet Pigtailed Laser Diode
- 405 nm, 50 mW
- 3 µm SM Fiber
- FC/PC connector
- Heat Sink



Description

SPL405-50-3-PD is a violet pigtailed laser diode, typically emitting at 405 nm with an output power of 50 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

Parameter	Symbol	Val	Unit	
		Min.	Max.	
Reverse Voltage	VR		2.0	V
PD Reverse Voltage	V _{RPD}		30	V
Operating Temperature	TOPR	- 10	+ 70	°C
Storage Temperature	TSTG	- 40	+ 85	°C
Soldering Temperature (t _{max.} 3s)	T _{SOL}		+ 260	°C

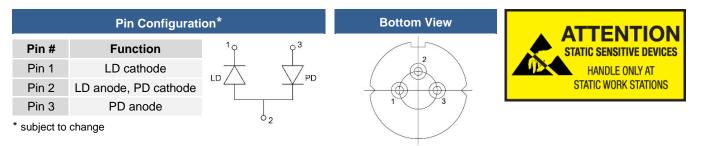
Electro-Optical Characteristics (TCASE = 25°C)

Parameter		Symbol	Values			l loit
			Min.	Тур.	Max.	Unit
Peak Wavelength		λ_{P}	395	405	415	nm
Spectral Width		λ_{Δ}		2.0		nm
Output Power		Po		50		mW
Operating Voltage		VF		5.0	6.0	V
Threshold Current		<i>I</i> th		45	80	mA
Operating Current		lo		125	140	mA
PD Monitor Current		I PD		0.3		mA
Fiber Spec.	Туре		Single Mode			
	Core diameter		3			μm
	N.A.		0.12			
	Connector		FC/PC*			
	Length			80		cm

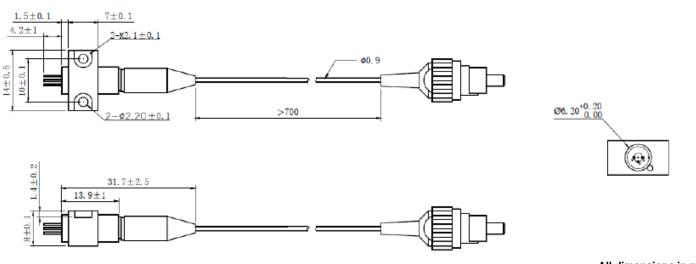
* SC / SMA905 con. available on request



Electrical Connection



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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