SPL405-40-3-PD

- **Violet Pigtailed Laser Diode**
- 405 nm, 40 mW
- 3 µm SM Fiber
- FC/PC connector
- **Heat Sink**







Description

SPL405-40-3-PD is a violet pigtailed laser diode, typically emitting at 405 nm with an output power of 40 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	Symbol	Val	Heit	
Parameter		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	$T_{ t STG}$	- 40	+ 85	°C
Soldering Temperature (t _{max.} 3s)	T_{SOL}		+ 260	°C

Electro-Optical Characteristics (TCASE = 25°C)

Parameter		Symbol	Values			I India
			Min.	Тур.	Max.	Unit
Peak Wavelength		λ_{P}	395	405	415	nm
Spectral Width		$\lambda_{ riangle}$		2.0		nm
Output Power		Po		40		mW
Operating Voltage		V F		5.0	6.0	V
Threshold Current		<i>I</i> th		40	80	mA
Operating Current		lo		120	140	mA
PD Monitor Current		<i>I</i> PD		0.3		mA
Fiber Spec.	Туре		Si			
	Core diameter			μm		
	N.A.					
	Connector		FC/PC*			
	Length		80			cm

^{*} SC / SMA905 con. available on request

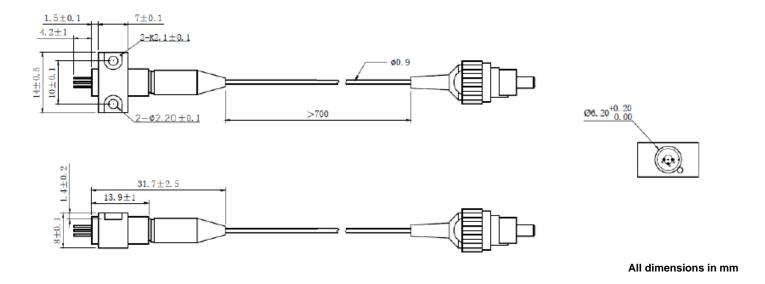
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Electrical Connection

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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