



## SPL850-50-M-PD

- IR Pigtailed Laser Diode
- 850 nm, 50 mW
- 105  $\mu\text{m}$  Multi Mode Fiber
- FC/PC connector
- Heat Sink (optional)



### Description

**SPL850-50-M-PD** is an infrared pigtailed laser diode, typically emitting at 850nm with an output power of 50 mW, with an integrated monitor photodiode. It comes in a coaxial package with **105  $\mu\text{m}$  multi mode fiber** and FC/PC connector. **SPL850-50-M-PD** is also available with an optional heat sink.

### Maximum Rating ( $T_{\text{CASE}} = 25^{\circ}\text{C}$ )

Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Voltage	$V_R$		2.0	V
Operating Temperature	$T_{\text{OPR}}$	- 40	+ 50	$^{\circ}\text{C}$
Storage Temperature	$T_{\text{STG}}$	- 40	+ 85	$^{\circ}\text{C}$
Soldering Temperature (max. 3s)	$T_{\text{SOL}}$		+ 260	$^{\circ}\text{C}$



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

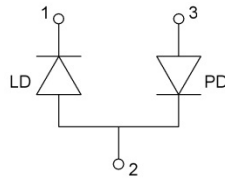
Parameter	Symbol	Values			Unit
		Min.	Typ.	Max.	
<b>Peak Wavelength</b>	$\lambda_P$	<b>840</b>	<b>850</b>	<b>860</b>	<b>nm</b>
Output Power	$P_O$		20		mW
Spectral Width (FWHM)	$\Delta\lambda$		2.0		nm
Operating Voltage	$V_F$		2.4	3.0	V
Threshold Current	$I_{\text{th}}$		20	30	mA
Operating Current	$I_F$		120	140	mA
Monitor Current	$I_{\text{PD}}$		1.0		mA
PD Reverse Voltage	$V_{\text{PDR}}$		30V		
Fiber Specification	type		multi mode		
	core		105		$\mu\text{m}$
	connector		FC/PC		
	length		80		cm



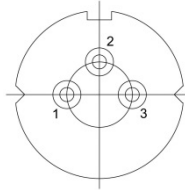
## Electrical Connection

### Pin Configuration\*

Pin #	Function
Pin 1	LD cathode
Pin 2	LD anode, PD cathode
Pin 3	PD anode

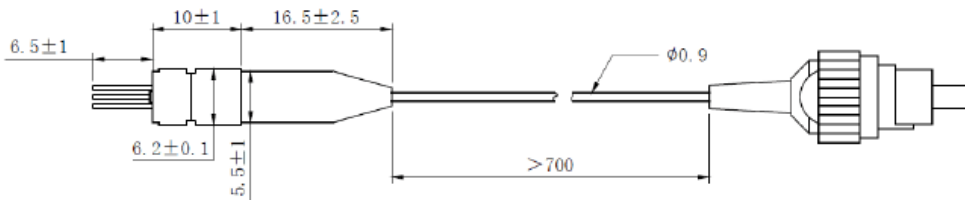


### Bottom View



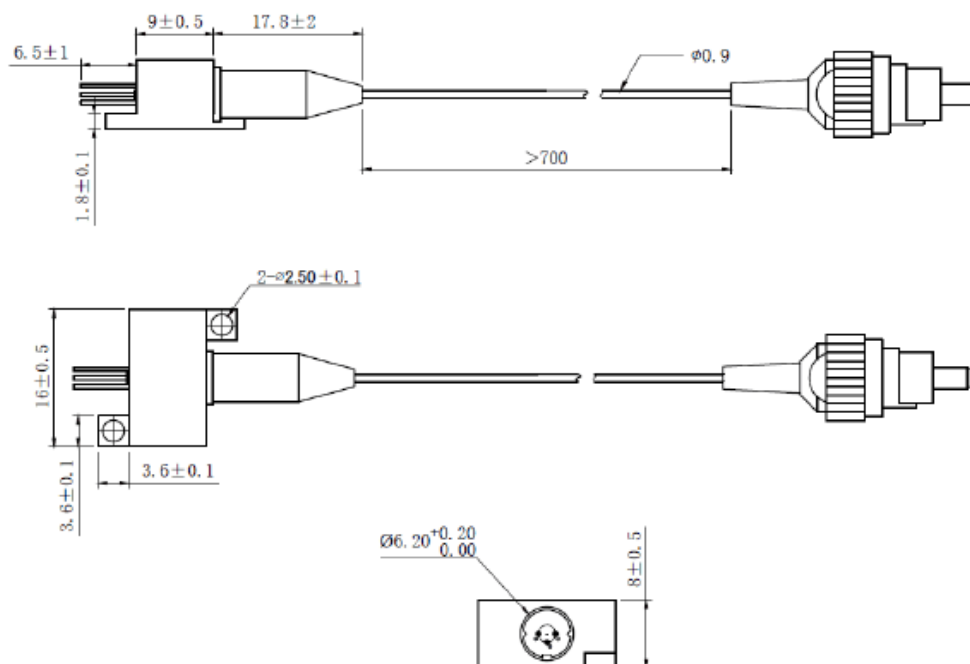
\* subject to change

## Coaxial Package



All dimensions in mm

## B1 Package (optional)



All dimensions in mm