

SPL650-3-105M-PD

TECHNICAL DATA

Pigtailed Coaxial Laser Diode

Features

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650 nm

Applications

- Medical laser treatment
- Printing
- Aiming beam

Coaxial packageBuilt-in PD

Electrical Connection

105µm MM Fiber



Pin Configuration					Bottom View
1 ₀	0 ³	n-type			2
		PIN	Function		
		1	LD Anode		$\rightarrow \oplus + \oplus \rightarrow$
		2	LD Cathode, PD Cathode		
		3	PD Anode		
C	2		·		

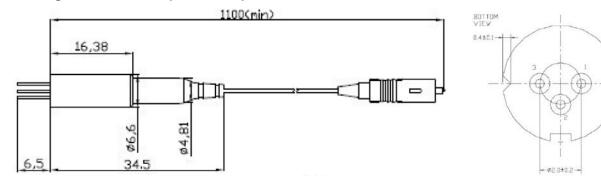
Specifications (25°C)

Туре	Min.	Тур.	Max.	Unit				
Optical Specification								
Output Power P _F	-	3	-	mW				
Center Wavelength λ_{C}	645	655	660	nm				
Spectral Width Δλ	-	2	-	nm				
Fiber Characteristics								
Fiber Core	-	105	-	μm				
Fiber Length	-	0.8	1.0	m				
Connector	tor FC/SC/SMA905							
Electrical Specification								
Slope Efficiency E _S	0.4	0.6	1.0	mW/mA				
Threshold Current Ith	-	20	25	mA				
Operation Current Io	-	36	45	mA				
Operation Voltage V _f	-	2.3	2.6	V				
Monitor Current I _m	0.05	0.15	0.3	mA				
PD Reverse Voltage	-	30	-	V				
ckage Style Coaxial								
Absolute Maximum Ratings								
Reverse Voltage V _r	2.0			V				
Operating Temperature T _{Op}	-10 +50			C°				
Storage Temperature T _{stg}	-40 +85			O°				
Lead Soldering Temperature (10 sec.)	260			°C				

The above specifications are for reference purpose only and subjected to change without prior notice.



Package Dimensons (Unit: mm)



Safety of Laser light

 Laser Light can damage the human eyes and skin. Do not expose the eye or skin directly to any laser light and/or through optical lens. When handling the LDs, wear appropriate safety glasses to prevent laser light, even any reflections from entering to the eye. Focused laser beam through optical instruments will increase the chance of eye hazard.



Cautions

1. Operating methode

- This LD shall change its forward voltage requirement and optical ouput power according to temperature change. Also, the LD will require more operation current to maintain same ouput power as it degrades. In order to maintain output power, use of APC (Automatic Power Control) is recommended. Which use monitor feedback to adjust the operation current.
- Confirm that electrical spike current generated by swithing on and off does not exceed the maximum operating current level specified herein above as absolute maximum rating. Also, employ appropriat countermeasures to reduce chattering and/or overshooting in the circuit.

2. Static Electricity

• Static electricity or electrical surges will reduce and degrade the reliability of the LDs. It is recommended to use a wrist trap or anti-electrostatic glove when handeling the product.

3. Absolute Maximum Rating

• Active layer of LDs shall have high current density and generate high electric field during its operation. In order to prevent excessive damage, the LD must be operated strictly below absolute maximum rating.

