

SPL785-20-4-PD

TECHNICAL DATA

Pigtailed Coaxial Laser Diode

Features

- Applications
- Medical laser treatment
- Printing



Coaxial package

785 nm

SM Fiber

Built-in PD

Electrical Connection

	Bottom View				
10	0 ³	p-type			2
		PIN	Function		
		1	LD Anode		$\rightarrow \oplus + \oplus \rightarrow$
		2	LD Cathode, PD Anode		
		3	PD Cathode		
C C	2				

Specifications (25°C)

Turne	Min	Turn	Mox	Unit				
Туре	Min.	Тур.	Max.	Unit				
Optical Specification								
Output Power P _F	-	20	30	mW				
Center Wavelength λ_{C}	775	785	795	nm				
Spectral Width Δλ	-	-	-	nm				
Fiber Characteristics								
Fiber Core Size	-	4	-	μm				
Fiber Length	-	0.8	1.0	m				
Connector	FC/ST/SMA-905							
Electrical Specification								
Slope Efficiency E _S	-	1.1	-	mW/mA				
Threshold Current I _{th}	-	35	-	mA				
Operation Current Io	-	115	-	mA				
Operation Voltage V _f	-	2.0	-	V				
Monitor Current I _m	-	0.5	-	mA				
PD Reverse Voltage	-	30	-	V				
Package 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			°C				
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.



• These LDs are emitting invisible light.

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.

