



Super-Luminescent Light Emitting Diode Device

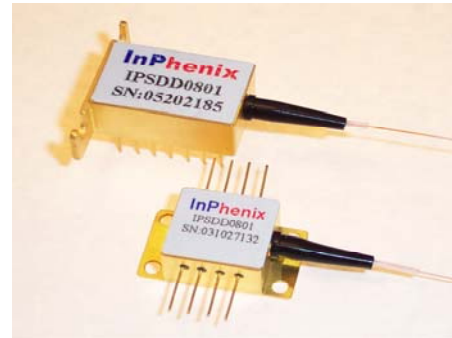
IPSDD080X (820nm)

Features

- Wide Optical Bandwidth
- Very Low Spectral Ripple
- High Output Power in SM/or PM Fiber

Applications

- Broadband Light Source
- Fiber Optic Sensor (FOS)
- Biomedical Imaging Device
- Optical Coherence Tomography (OCT)



IPSDD0801 – FOS-type SLED Device Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit
Peak Wavelength	λ_p	805	820	830	nm
3 dB Bandwidth	$\Delta\lambda_{3dB}$	15			nm
Output Power in SM Fiber	P_o	0.3			mW
Spectral Modulation Depth p-p	Δ			4	%
				0.17	dB
Operating Current	I_F		120		mA
Back Facet Monitor	Available upon request				

IPSDD0802 – OCT-type SLED Device Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit
Peak Wavelength	λ_p	805	820	830	nm
3 dB Bandwidth	$\Delta\lambda_{3dB}$	22	25		nm
Output Power in SM Fiber	P_o	2.0	2.5		mW
Spectral Modulation Depth p-p	Δ			4	%
				0.17	dB
Operating Current	I_F			160	mA
Back Facet Monitor	Available upon request				



IPSDD0803 – OCT-type SLED Device Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit
Peak Wavelength	λ_p	805	820	830	nm
3 dB Bandwidth	$\Delta\lambda_{3dB}$	40			nm
Output Power in SM Fiber	P_o	4.0	5.0		mW
Spectral Modulation Depth p-p	Δ			4	%
				0.17	dB
Operating Current	I_F		200	220	mA
Back Facet Monitor	Available upon request				

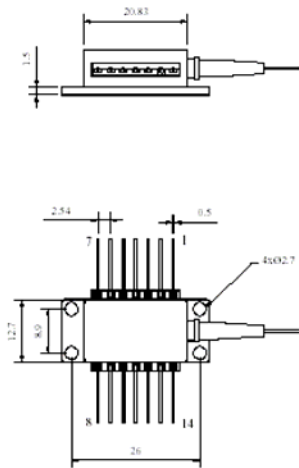
Standard 14-pin BUT package

Absolute Maximum Ratings

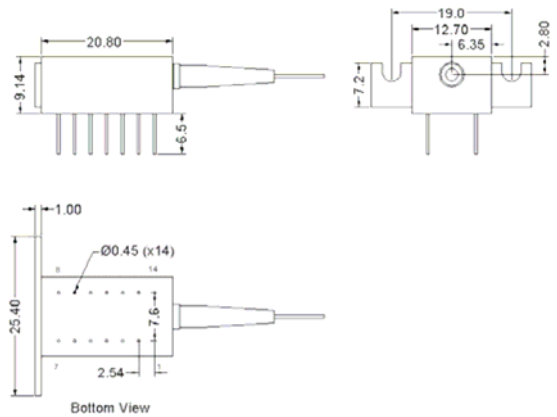
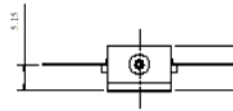
Parameter	Min.	Max.	Unit
Operating Temperature	-20	70	°C
Storage Temperature	-40	85	°C
TEC Drive Current		1.5	A
TEC Drive Voltage		3.6	V
Thermistor Resistance	10 k Ω @ 25 °C		
SLED Chip Temperature Setting	25 °C		
Fiber Type	SM800 or HI780		
Fiber Jacket	250 μ m tight buffer with 900 μ m loose tube		
Package	14-pin DIL/8-Pin BUT		



Package Dimensions



14-Pin BUT Package



14-Pin DIL Package

Dimensions in mm
Tol: ±0.13

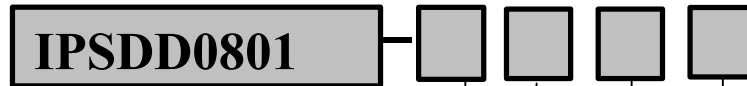
Pin Definition

14-pin BUT package				14-pin DIL package			
Pin	Function	Pin	Function	Pin	Function	Pin	Function
1	TEC(+)	8	NC	1	TEC(+)	8	NC
2	Thermistor	9	NC	2	NC	9	SLD (-)
3	NC	10	SLD (+)	3	NC	10	Case
4	NC	11	SLD (-)	4	NC	11	Thermistor
5	Thermistor	12	NC	5	SLD (+)	12	Thermistor
6	NC	13	Case	6	NC	13	NC
7	NC	14	TEC(-)	7	NC	14	TEC(-)

- If the SLD is ordered with a Back Facet Monitor, Pin 7 is PD-Cathode and Pin 8 is PD-Anode

INPHENIX

Part Numbering System



Model-

IPSSD0801: 820nm FOS-type SLED Device
 IPSSD0802: 820nm OCT-type SLED Device
 IPSSD0803: 820nm OCT-type SLED Device

Package-

1: 14-pin DIL
 2: 8-pin Butterfly
 3: 14-pin Butterfly

Fiber Type:

1- SM Fiber
 2- PM Fiber

Jacket Type:

1- 900 μm
 2- 250 μm tight buffer

Connector Type:

0=No Connectors	5=N/A
1=N/A	6=N/A
2=N/a	7=SC/APC
3=FC/APC	8=SC/UPC
4=FC/UPC	9=N/A

Back Facet Monitor:

Available upon request

Example: IPSSD0801-1224: 820 nm FOS-type SLED in 14-pin DIL with 250 μm tight buffered PM fiber with FC/UPC connectors

Corporate Office

250 North Mines Rd
 Livermore, CA 94551
 Tel: 925.606.8809
 Fax: 925.606.8810
www.inphenix.com
sales@inphenix.com

All information contained herein is believed to be accurate and is subject to change without notification. No responsibility is assumed. Please contact InPhenix for more information. InPhenix and the InPhenix logo are trademarks of InPhenix Inc.. All rights are reserved.



日本デバイス株式会社

担当 平田 taeko@j-device.com

URL www.j-device.com

TEL 03-6262-3424 FAX 03-6800-5883