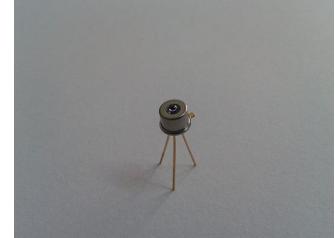


2.5Gbps InGaAs PIN Photodiode with pre-amplifier

Model: LSIPDT-2.5

Features:

- High sensitivity at the wavelength of 1310nm/1550nm
- Data rate up to 2.5Gbps
- Low voltage power supply: 3.3V
- Differential output
- Operation temperature: -40°C to 85°C
- InGaAs PIN detector in industrial standard TO-46 package with pre-amplifier and lens cap or fiber coupling



Applications:

- Industrial automatic control
- Science analysis and experiment
- Space light detect equipment
- Telecommunication
- Data communication



Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-40~+85	°C
Storage temperature	Tstg	-50~+85	°C
Power Supply Voltage	Vcc	0~+4	V
Soldering temperature(time)	Ts (10s)	260	°C

Electrical and optical characteristics:(T=25°C)

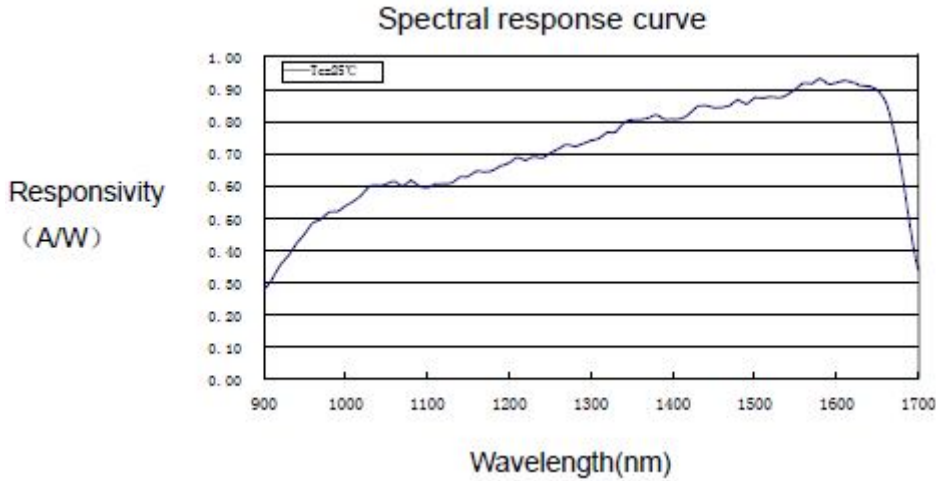
parameter	symbol	Min	Typ	Max	unit
TIA Supply Voltage	Vcc	3.1	3.3	3.5	mm
Supply Current	Icc (No loads)	24	32	40	mA
Spectral range	λ	800	1550	1700	nm
Bandwidth	BW(-3dB)	1.4	1.8		GH
Output Impedance	Rout	30	50	70	Ω
Transimpedance	Zt(Differential)	5	9	11.5	k Ω
Differential Output Voltage	VD (100 Ω differential load)		250	425	mV
Sensitivity	S(ER=10dB@2.5Gbps,BE R=10-10,PRBR=223-1)		-24	-22	dBm
Saturation Power	Psat		0		dBm

地址: 北京市海淀区苏州街12号西屋国际A座1104 邮编: 100080

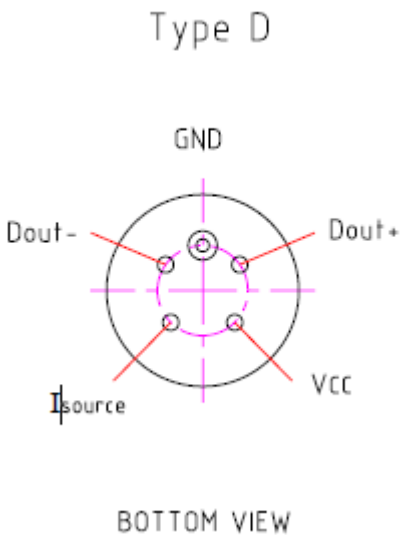
Address: Building A Rm 1104, Westing house, No 12 Suzhou Street,, Haidian District, Beijing 100080, China.

TEL: +86-010-53691988 FAX: +86-010-62557230 Email: info@lightsensing.com Website: www.lightsensing.com

The typical Responsivity curve



The package and Lead



Order information

LSIPDT-2.5-X	X=0	TO-46 Can with ball lens cap
	X=1	TO-46 Can with flat window cap
	X=SMFP	SM Fiber coupling with FC-PC connector
	X=SMFA	SM Fiber coupling with FC-APC connector
	X=SMSA	SM Fiber coupling with SC-APC connector
	X=5MMFA	50um MM Fiber coupling with FC-APC connector
	X=6MMFA	62.5um MM Fiber coupling with FC-APC connector
	X=Other	By customer's request

The cautions

- 1: The suitable ESD protection is required in storage, transportation and using
- 2: The fiber bending radius no less than 20mm for avoiding fiber damaged, Be sure the fiber coupling facet is clean before connecting it to opto-circuit.