

0.8mm Silicon Blue PIN photodiode

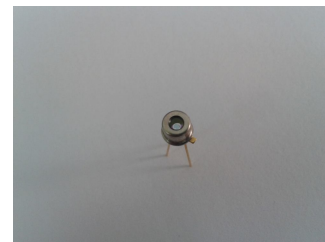
Model: LSSPD-B0.8

Features:

- High responseivity
- Blue enhance
- High speed
- Low dark current
- Low capacitance
- Flat window

Applications:

- Optical communications
- Laser ranging
- Industrial automatic control
- Optical power meter
- Science analysis and experiment



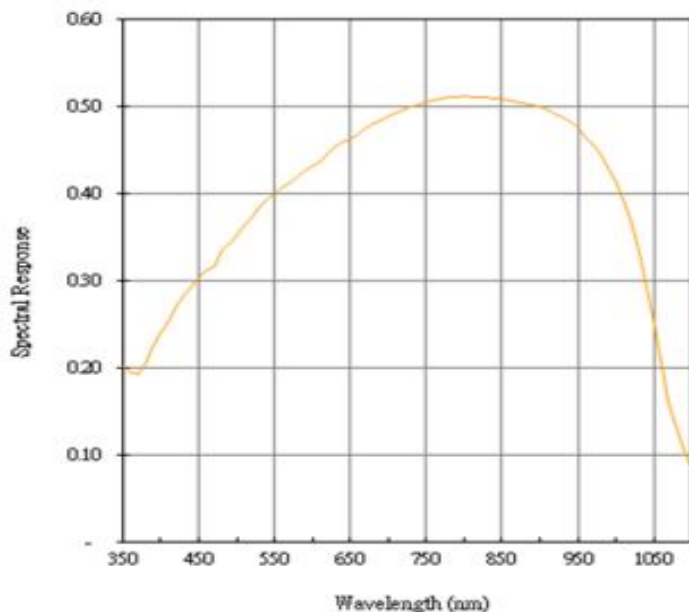
Absolute maximum ratings:

parameter	symbol	value	unit
Operating temperature	Top	-40~+100	℃
Storage temperature	Tstg	-45~+125	℃
Forward current	I _f	10	mA
Reverse current	I _r	1000	uA

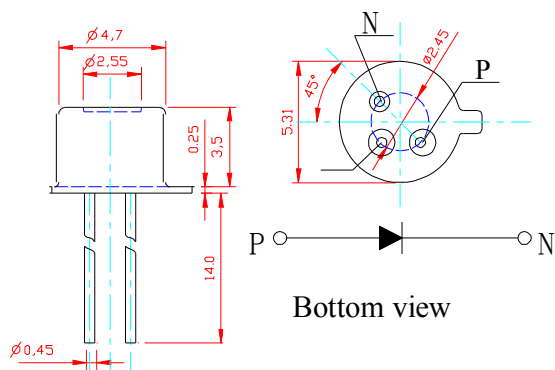
Electrical and optical characteristics:(T=25℃, Vr=10V)

parameter	symbol	unit	Value (typ.)
Active area	Φ	mm	0.8×0.8
Spectral range	λ	nm	320-1100
Responsivity	Re (λ=1064nm)	mA/mW	0.20
	Re (λ=850nm)	mA/mW	0.50
	Re(λ=650nm)	mA/mW	0.45
	Re(λ=350nm)	mA/mW	0.18
Response time	Tr (R _L =50Ω, 850nm)	ns	10
Dark current	I _D	nA	2
Reverse Breakdown voltage	V _{BR} (I _R =10uA)	V	60
Junction capacitance	C _j (f=1MHz)	pF	18
Operating voltage	V _R	V	0-10
package	TO-46		

The typical Sensitivity curve



The package and Lead



Order information

LSSPD-B0.8-X

X=0	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=JKFC	TO-46 Can with FC receptacle
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.