杭州柠光科技有限公司
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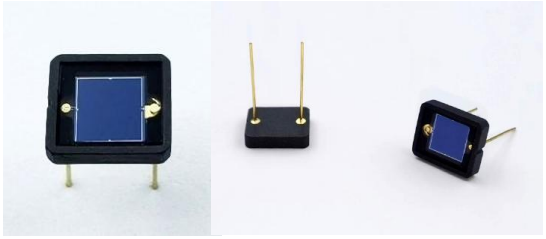
400-1100nm 5.8mm Si PIN Photodiode

Model:NSP5.8



NSP5.8-Ce

Applications

- Optical power meter
- Optical sensor
- Fluorescence detector
- Spectrophotometry/CT scan
- Industrial automatic control
- IR/ Laser light Monitoring
- Medical equipment

Features

- 400-1100nm spectral range
- Low dark current, High reliability
- Large active area 6mm×6mm
- non-hermetic Ceramic package with optical glass

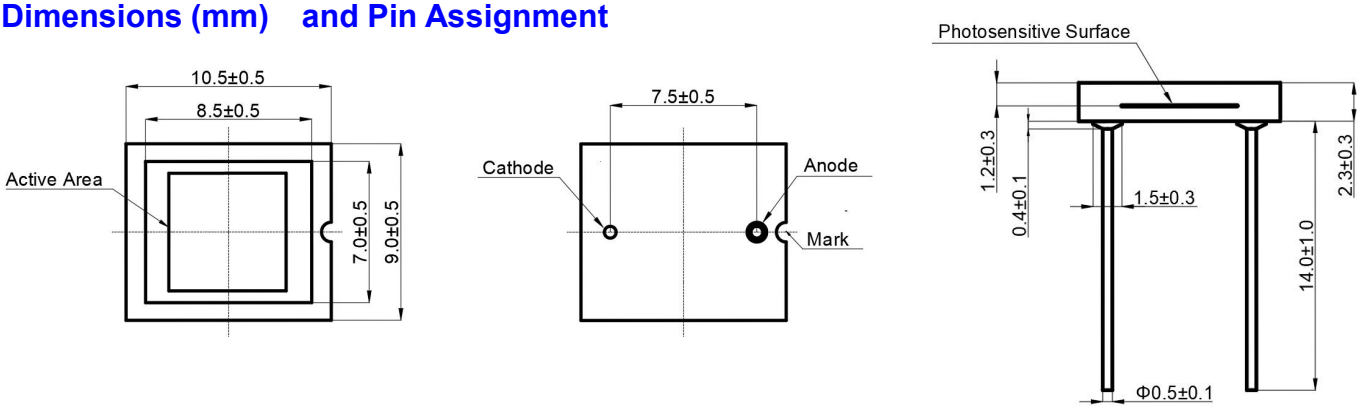
Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol	Unit	value
Storage temperature	Tst	℃	-25～+85
Operating temperature	Top	℃	-20～+60
Soldering temperature(time)）	Ts（10s）	℃	260
Reverse voltage	Vr	V	15

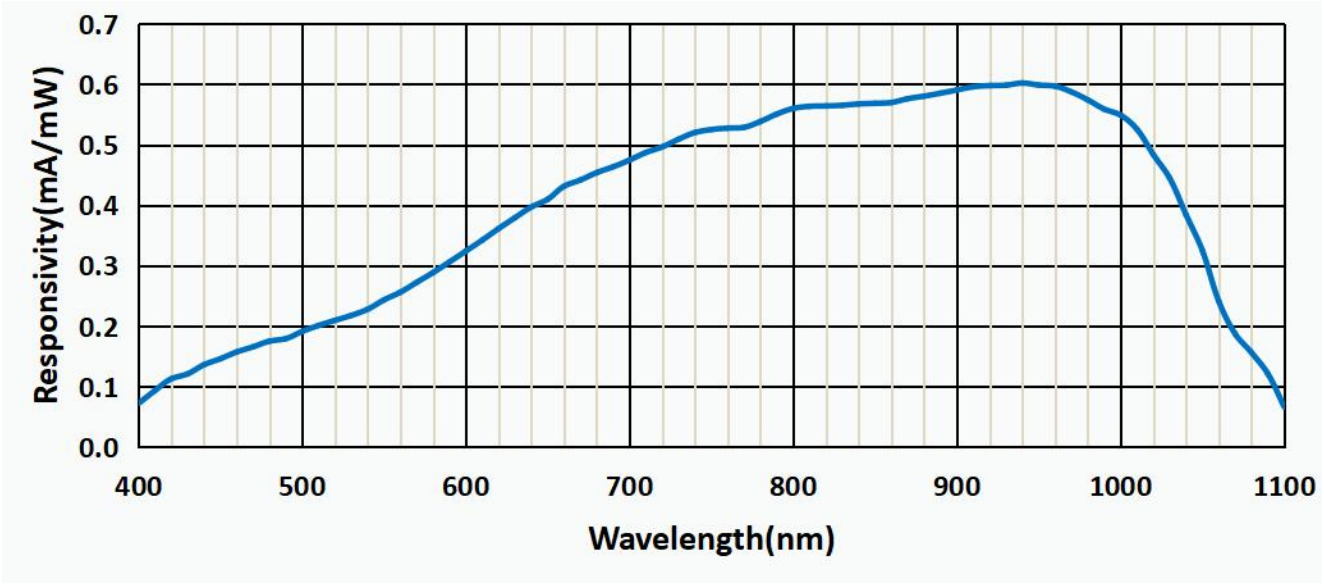
Optical & electrical characteristics (Tc=25℃)

Parameter	Symbol	Test Conditions	Unit	value（Typ.）
Spectral response range	λ		nm	400-1100
Active Area			mm	5.8×5.8
Responsivity	Re	Vr=5V,λ=405nm	mA/mW	0.05
		Vr=5V,λ=650nm	mA/mW	0.35
		Vr=5V,λ=850nm	mA/mW	0.50
		Vr=5V,λ=1064nm	mA/mW	0.20
Dark current	Id	Vr=0V	pA	10
		Vr=5V	nA	1.2
Capacitance	Ct	f=1MHz, Vr=0V	pF	2100
		f=1MHz, Vr=5V	pF	100
Reverse operating voltage	Vr		V	0-10
Reverse breakdown voltage	VBR	Id=10uA	V	60
Saturated optical power	Ps	Vr =5V	mW	20
Shunt resistance	Rsh	Vr =10mV	MΩ	100
Package	Non-hermetic Ceramic package with optical glass			

Dimensions (mm) and Pin Assignment



The typical spectral response curve(Tc=25℃)



Order Information

NSP5.8-X：N=Ninglight SP=Si PD 5.8=5.8mm×5.8mm active Area

X=Ce：Non-hermetic Ceramic package with optical glass

The cautions

1：The above product specifications are subject to change without notice.

2：The suitable ESD protection is required in storage, transportation and using.