Si photodetector (TO package)



Description:

The product is a silicon PIN photodiode, which works under reverse bias condition. The peak wavelength is about 940nm, and the spectrum detection range is from 400 nm to 1100 nm.

Features:

- Plane orthographic structure
- Quick response
- Low dark current
- High responsiveness
- High reliability

Optional:

- Optical fiber communication, sensing and ranging
- Light detection from visible light to near infrared
- Fast optical pulse detection
- Various industrial control systems



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E/O Characteristics:

Parameter		Symbol Number	Test Condition	Typical Value Unit						Unit						
Photosensitive surface size				Ф0.2	Ф0.5	Φ1	Ф2	Ф4	Ф5	Ф8	0.5X0.5	1X1	1.3X1.3	2X2	3X3	mm
Optical Parameters	Spectral Response Range	λ		400~1100 r						nm						
	Responsibility	Re	VR=15V, λ=900nm	0.40	0.45	0.5	0.5	0.5	0.5	0.55	0.45	0.45	0.45	0.5	0.5	A/W
	Response Time	tr	VR=15V, RL=50Ω	2	5	6	8	15	15	25	3.5	5	8	10	15	ns
Electrical Parameter	Dark Current	ID	VR=15V	1	2	3	5	12	40	60	3	3	4	6	10	nA
	Breakdown Reverse Voltage	VB	IR=10µA	100 50 80						V						
	Electric Capacity	Cj	f=1MHz, VR=15V	0.8	1.2	2.0	6	20	30	70	6.0	3	3	10	25	pF
Operating Voltage		VR		0~15								V				
Tube Socket Model				Coaxial type II, 5501,		TO-5	TO-8	Coaxial type II, 5501,		TO-5						
				TO46, plug-in, with pigtail					TO46, plug-in, T05							
Saturated optical power 0.3w/cm ²																

* The size and technical index of the photosensitive surface of the product can be determined according to the customers' requirements; Please refer to the attached table for specific parameters.

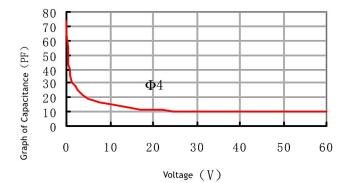


Fig. 1 Graph of Capacitance and Voltage

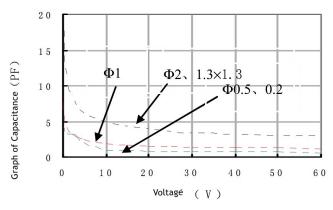
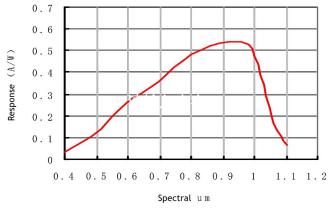


Fig. 2 Graph of Capacitance and Voltage

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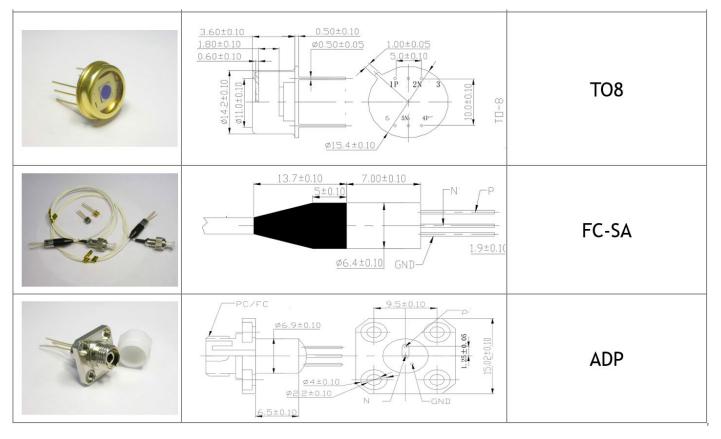


Dimensions and Pin definitions:

Package Picture	Size Information	Ordering Code
		C-II
X	2.40±0.10 0.32±0.13 0.21±0.02 0.25±0.10 0.25±0.10 0.25±0.10 0.25±0.10 0.25±0.10 0.25±0.10 0.25±0.10 0.25±0.10 0.25±0.10 0.25±0.10 0.25±0.10 0.25±0.10 0.25±0.10 0.25±0.10 0.25±0.10 0.25±0.10 0.25±0.10 0.00 0.	TO46
1	3.20±0.10 1.00±0.01 0.60±0.10 0.60±0.10 0.50±0.05 0.60±0.10 0.50±0.05 0.60±0.10 0.50±0.05 0.60±0.10 0.50±0.05 0.60±0.10 0.50±0.05	5501
	4.4±0.1 0.25±0.05 0.45±0.05 0.45±0.05 0.45±0.05 0.45±0.05 0.45±0.05 0.45±0.05 0.45±0.05 0.45±0.05	TO5A

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Caution

- The device works under reverse bias voltage. Pay attention to that the polarity of the device cannot be reversed.
- The bending degree of optical fiber cannot be less than 45 degrees.
- Pay attention to electrostatic protection measures during storage, transportation and use of devices.

Ordering Info:

Company code	Detector Material	Photosensitive surface Size	Package		
MP	-SI	02-0.2mm	C-II		
		05-0.5mm	TO46		
		2-2mm	5501		
		4-4mm	TO5A		
		5-5mm	ТО5В		
		8-8mm	TO8		
		S1-1X1mm	FC-SA		
		S2-2X2mm	ADP		
		S3-3X3mm			

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