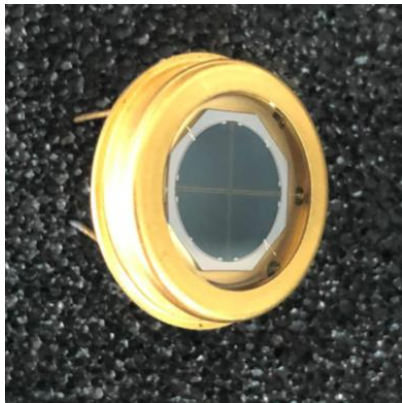


SILICON QUADRANT PHOTODIODE



Description

Φ10mm active area, low dark current quadrant photodiode
With P on N construction and 180um gaps.

It's optimized for high response at 1060nm.

Features

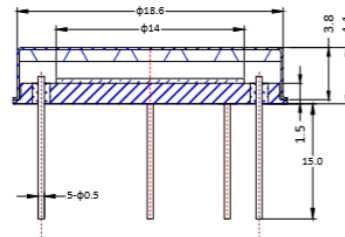
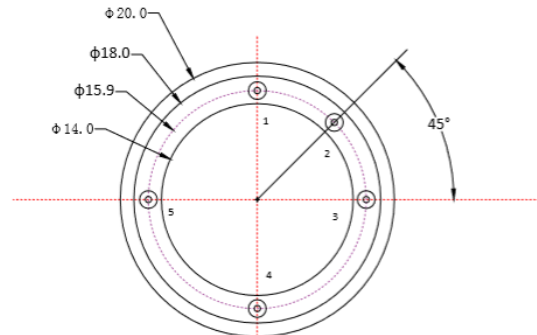
- * Small gap (180um)
- * Low dark current
- * High QE at 1064nm
- * Operating temperature is from -40 to +80°C
- * Storage temperature is from -40 to +100°C
- * soldering temperature is 260°C @Max.5 seconds at the position of 2mm from the PIN legs.

General Ratings

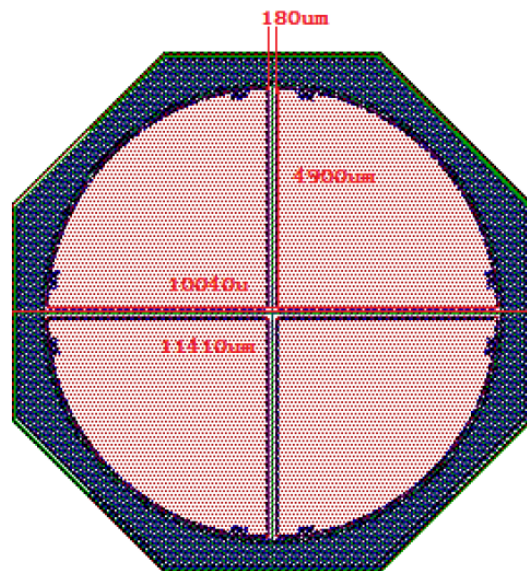
- * Type Silicon Photodiode
- * Chip active area:Φ10mm dia.
- * High linearity * Low dark current

Applications

- * 1064nm Laser Detector
- * Laser guidance
- * Laser alignment
- * Spot position detection



PIN2: Cathode PIN1,3,4,5: Anode 1~4



NOTES:

All dimension are in millimeters.



Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Number of elements			4			
Active area (diamater)			Φ10			mm
Gap		Between elements	180			um
Spectral range			400		1100	nm
Photo sensitivity	S _R	1064nm, V=150V		0.45	0.48	A/W
Dark current	I _D	V _R =160V		4.61		nA
		V _R =200V		2.67	5	
Rise time	t _R	V _R =10V; λ =1064m;R _L =50Ω		10	12	ns
Temp coefficient of Ubias	T _{ClD}			0.8		V/°C
Reverse breakdown voltage	V _{(BR)R}	I _R =10μA Ev=0lx	160	260	400	V
Junction Capacitance	C _J	V _R =0V f=1MHz		175		pF
		V _R =10V f=1MHz		12		
		V _R =50V, R _L =50Ω		6.5	8	
Uniformity of each Element	%		0.8		2	%
Crosstalk		V _R =10V; λ =1064m;R _L =50Ω			5	%

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject change without notice

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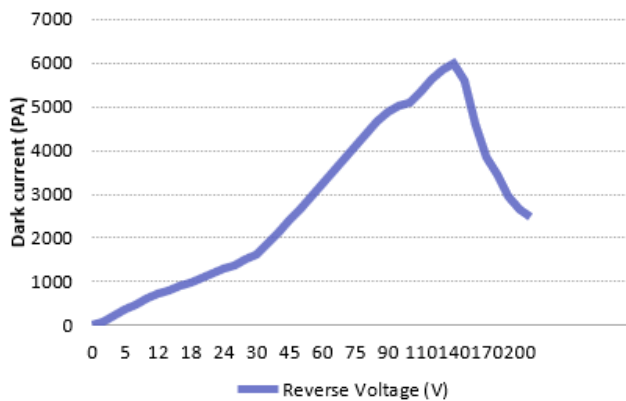
TEL:+86-21-54971821

FAX:+86-21-54971823

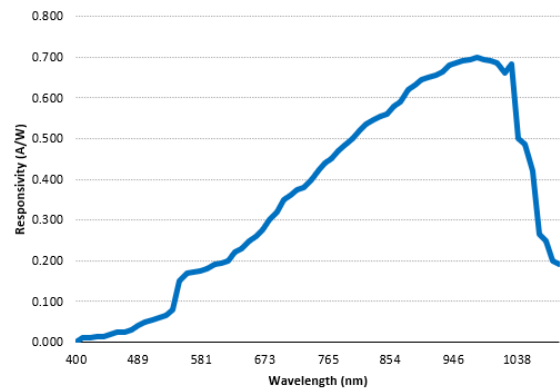
EMAIL: otron.sensor@gmail.com

[Http://www.e-otron.com](http://www.e-otron.com)

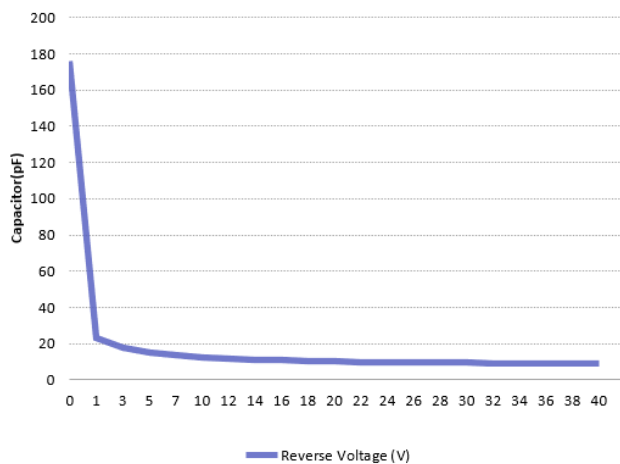
■ Dark current vs. reverse voltage



■ Spectral response



■ Relative Junction Capacitance VS. Voltage



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FAX:+86-21-54971823

EMAIL: otron.sensor@gmail.com

[Http://www.e-otron.com](http://www.e-otron.com)