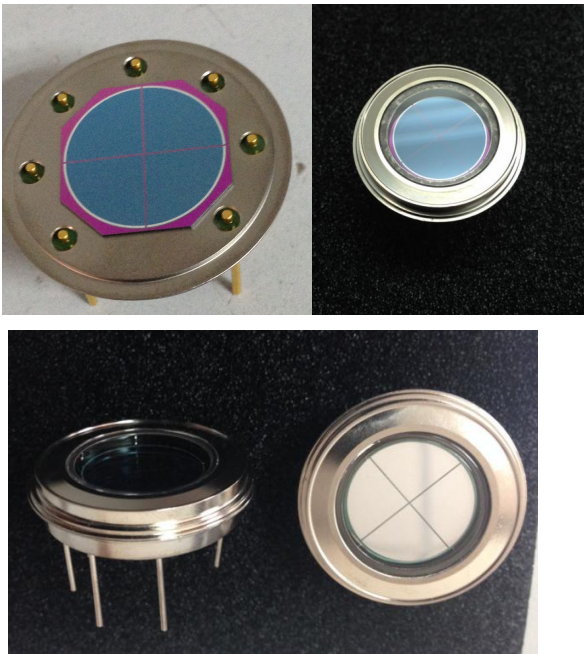


SILICON QUADRANT PHOTODIODE



Description

Φ 14mm diameter low dark current, large active area chip size quadrant photodiode with P on N construction and 200um gaps.

Features

- * Small gap
- * Low dark current
- * 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
- * High linearity
- * Low dark current

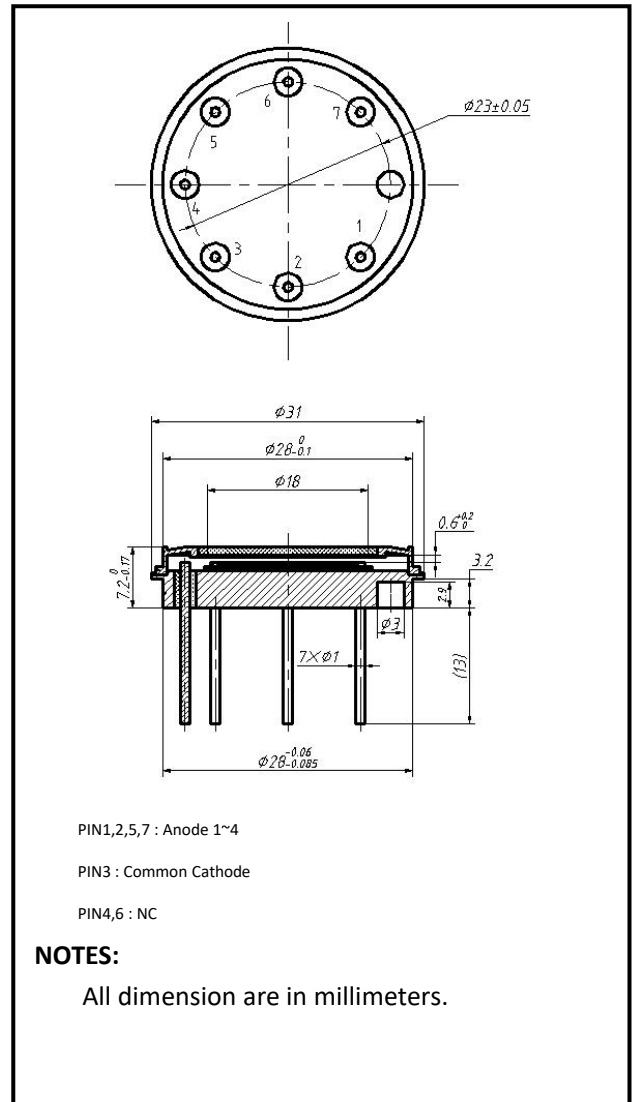
Applications

- * Laser beam position sensor
- * Autocollimators
- * Optical tweezers
- * Ellipsometers

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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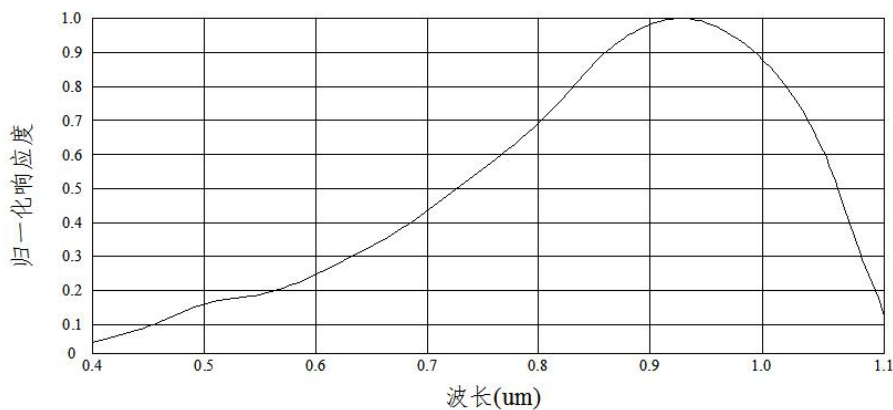
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Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Chip size	S			17.4*17.4		mm ²
Active area	A			Φ14		mm
Gap	Dia		Φ0.1		Φ7	mm
Dark current	I _D	V _R =100V		20	50	nA
		V _R =200V			100	
Rise time	t _R	V _R =50V;λ=1064nm;R _L =50Ω		15	20	ns
Temp coefficient of I _D	T _{CI_D}			0.18		times/°C
Reverse breakdown voltage	V _{(BR)R}	I _R =2μA Ev=0lx	250			V
Junction Capacitance	C _J	V _R =0V f=1MHz		166		pF
		V _R =50V f=1MHz		16	20	
CrossTalk Channel-to-Channel	S _L	V _R =100V, Adjacent Channel		2.5		%
		V _R =200V, Adjacent Channels		5		
Uniformity of each Element	%			3	8	%
Photo sensitivity	S _R	650nm		0.38		A/W
		1064nm		0.45		
Spectral Application Range	λ _{range}		400		1100	nm
Spectral Response-Peak	λ _p			1064		nm

■ Spectral response



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