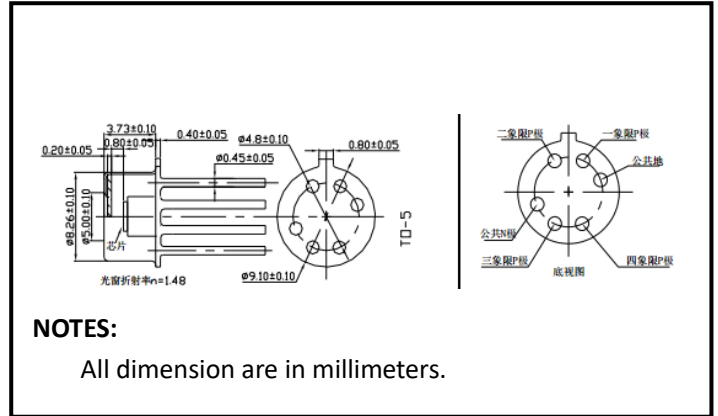


InGaAs APD QUADRANT PHOTODIODE



Description

1mm diameter Low Dark Current InGaAs APD Quadrant Photodiode with P on N construction and 100um gaps. Packaged in a TO-5 with a broadband double sided AR Coated flat window.

Features

- * 1mm diameter active area
- * Small gap
- * Low dark current
- * Low crosstalk

General Ratings

- * High linearity
- * High reliability

Applications

- * Laser beam position sensor
- * Minuteness process controller
- * Optical tweezers
- * Laser guidance

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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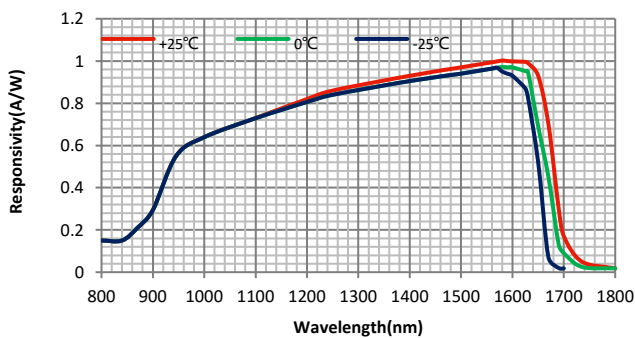
<http://www.e-otron.com>



Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Chip size	Dia.			Φ1		mm
Gap	d	element to element		100		um
Dark current	I _d	M=10		25	100	nA
Maximum multiplication gain	M		20			
Reverse breakdown voltage	U _{br}	I _R =100uA	40		60	V
Operating voltage	U _r			0.90*U _{br}		
Rise time	t _r	f=1MHz; λ=1550nm; V _R =5V, R _L =50Ω		1.5	3.0	ns
Temp coefficient of I _d	T _{CID}	T _C =-40~+85°C		0.10	0.15	V/°C
Junction Capacitance	C _J	f=1MHz, M=10		12	15	pF
Cross talk Channel-to-Channel		850-1700nm, Adjacent Channels, M=10			10	%
Uniformity of each Element	δ _{Re}	V _R =5V, λ=1500nm, φ e=1μW, M=10			5	%
Saturation power	L	V _R =5V, M=10	1			mw
Photo sensitivity	S _R	1310nm	M=10	9.0		A/W
		1550nm	M=10	9.5		
Spectral Application Range	λ _{range}		800		1700	nm
Angular Resp 50% Resp Pt	θ _{1/2}			±55		Degrees

■ Spectral response



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