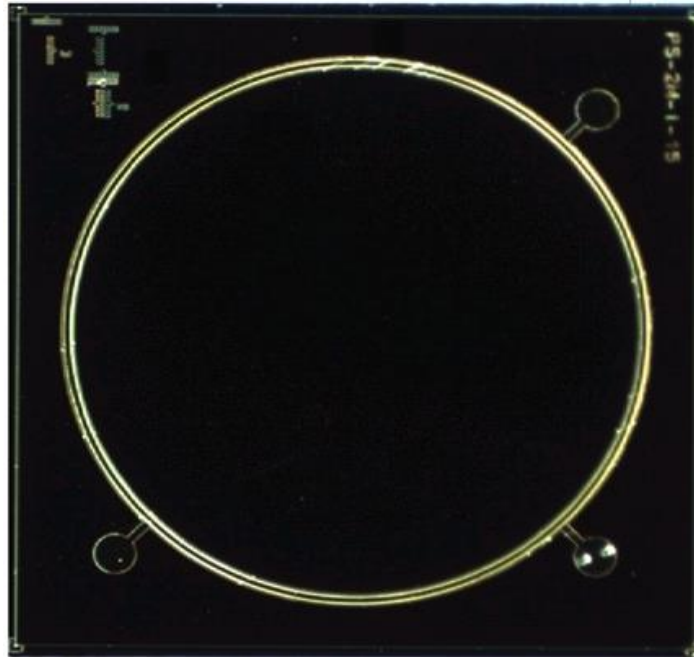


## ***InGaAs PIN PD Chip with 2mm diameter***

### **SPECIFICATION**



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## General Description

LAPD-2mm CHIP are designed to have a good linearity of responsivity to high power (+15dBm). In addition, by designing their shot noise and Jonson noise current to be lower, they enable users to reduce minimum detectable signal. Thus, they can be used for optical power meter for a wide input optical power range.

### Features

- Operation at 1000~1650nm
- Low dark current
- Low capacitance
- Linear response
- Low cost

### Applications

- Optical power Monitoring
- Optical sensor

## Absolute Maximum Ratings (Tc=25°C)

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	5	V
Reverse current	$I_R$	40	mA
Operating temperature range	$T_{OPR}$	-40 to +85	°C
Storage temperature range	$T_{STG}$	-40 to +85	°C

Table 1. Absolute Maximum Ratings

## Electro-Optical Characteristics (Tc=25°C)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Dark current	$I_D$	$V_R = 2 V$			50	nA
Capacitance	$C_{PD}$	$V_R = 2 V$			1	nF
Responsivity	R	$V_R = 2 V (@1550nm)$	0.9			A/W
Operating range	$\lambda$	-	1.0	-	1.65	$\mu m$

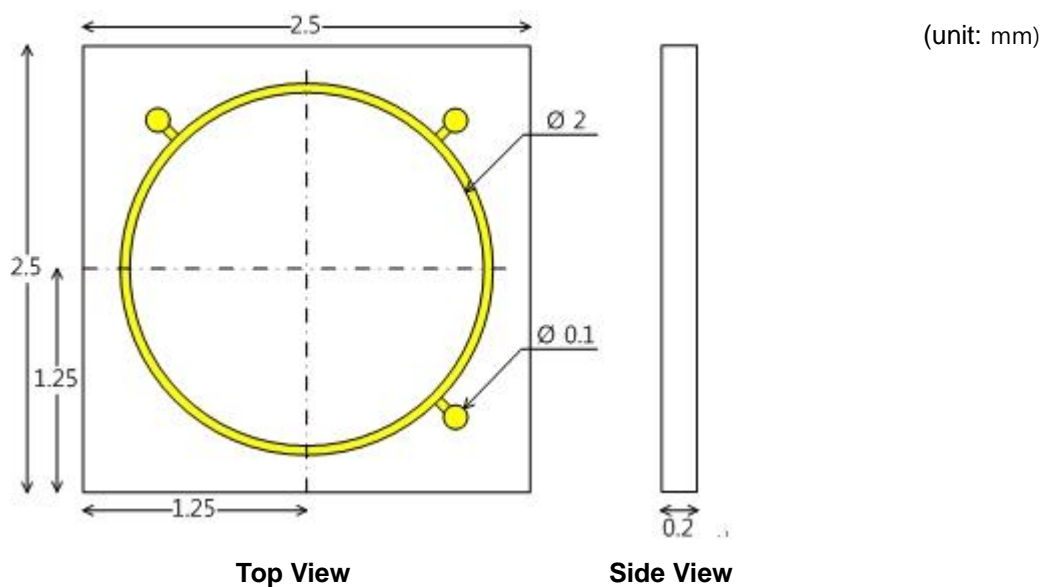
Table 2. Electro Characteristics

## Structure

### Dimension Parameter

Parameter	Symbol	Typ.	Unit
Light receiving area diameter	D	2.0	mm
Chip size	-	2.5×2.5	mm <sup>2</sup>
Bonding pad diameter	-	0.1	mm
Chip thickness	t	0.2 ± 0.015	mm

### Dimension



## Other Requirements

### Precautions for use

- 1) This device is susceptible to damage as a result of ESD (electrostatic discharge). Use of ground straps, anti static mats, and other standard ESD protective equipment is recommended when handling or testing an InGaAs PIN/APD or any other junction photodiode. Soldering temperature of the leads should not exceed 350°C for more than 3 seconds.

### Ordering Information- PD CHIP

