

# InGaAs / InP PIN Chip ---TK0915M3A

## 1. Scope

- The specification applies to LD's monitor PD in optical fiber communication.
- Type : TK0915M3A.

## 2. Structure

- InGaAs / InP PIN Chip.
- P Electrode (anode) : Gold.
- N Electrode (cathode) : Gold.

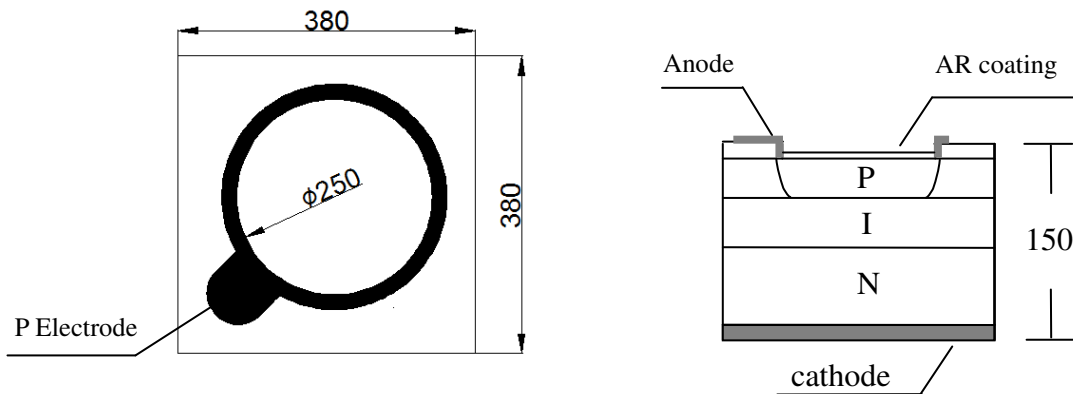
## 3. Size

- Chip size :  $380 \times 380 \pm 25\mu\text{m}$
- Thickness :  $150 \pm 25\mu\text{m}$
- Active area :  $250 \pm 2\mu\text{m}$  (diameter)
- Pattern drawing : per fig. 1

## 4. Electro-Optical Characteristics

Electro-Optical Specifications @ Ta = 23 °C

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Responsivity	R	Vr=5V,λ=1300nm	0.90	0.95		A/W
Responsivity	R	Vr=5V,λ=1550nm	0.95	1.00		A/W
Dark Current	Id	Vr=10V		0.2	1	nA
Capacitance	C	Vr =5V f =1MHz		5	6	pF
Forward Voltage	Vf	I=3mA		0.56	0.8	V
Breakdown Voltage	Vb	Ir =1uA	20			V
Shunt Resistance	Rs	V= 10mV	40			MOhm
Operating Temperature	Top		-40		100	°C
Storage Temperature	Tst		-40		125	°C
Electrostatic discharge	ESD	H.B.M	500			V



Unit :  $\mu\text{m}$

fig. 1

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