## PD1450-35T52 InGaAs PIN-PD

PD1450-35T52 is InGaAs PIN-photodiode. This PIN-photodiode is consists of a large chip with 0.35x0.35mm active area mounted on the TO-18 stem and is hermetical sealed by metal can with flat lens.

These devices are designed to be easy of setting up optically with a wide angle of half sensitivity of  $\pm 40^{\circ}$ .

## **Features**

- 1) High Reliability
- 2) High Response

## **Specifications**

1) Product Name InGaAs PIN Photo-Diode

2) Type No. PD1450-35T52

3) Chip

(1) Active Area 0.35mmx0.35mm

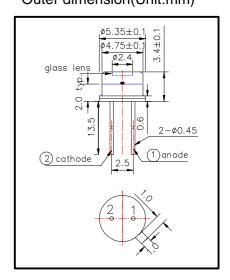
4) Package

(1) Type TO-18

(2) Lens Glass Flat Lens (f 2.4)

(2) Cap Gold Plated

## Outer dimension(Unit:mm)



Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit
Reverse Breakdown Voltage	V(BR)R	10	V
Operating Temperature	Topr	-20 ~ +90	°C
Storage Temperature	Тѕтс	-30 ~ +100	°C
Soldering Temperature	Tsol	260	°C

<sup>‡</sup> Pulse Soldering condition: Soldering condition must be completed within 2 seconds at 240°C

Electro-Optical Characteristics [25°C]

ltem	Symbol	Condition	Minimum	Typical	Maximum	unit
Photo Responsivity	Re	VR=0V,I P=1450nm		0.9		A/W
Photo Current	lι	VR=0V,I P=1450nm	10	14		uA(‡1)
Dark Current	ΙD	V <sub>R</sub> =1V			100	nA
Spectral Responsivity (Peak)	<b>l</b> P	VR=0V	1000		1600	nm
Half Angle of Sensitivity	<b>Q</b> 1/2	VR=0V		±40		deg.
Total Capacitance	Ст	f=1MHz,VR=1V		20		pF
Rise/Fall Time(10%~90%)	tr	RL=1KW,VR=1V		10		ns
	tf	INC-IINVV, VR-IV		5		ns

<sup>‡</sup> Measured by calibrated tool