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 ±40°.

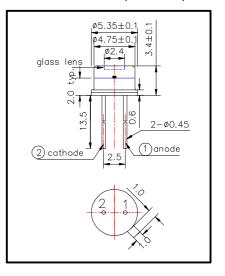
Features

- 1) High Reliability
- 2) High Response

Specifications

1) Product NameInGaAs PIN Photo-Diode2) Type No.PD1450-35T523) Chip0.35mmx0.35mm(1) Active Area0.35mmx0.35mm4) PackageTO-18(2) LensGlass Flat Lens (f 2.4)(2) CapGold 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

‡ Pulse Soldering condition: Soldering condition must be completed within 2 seconds at 240°C

Electro-Optical Characteristics [25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	unit
Photo Responsivity	Re	Vr=0V,I p=1450nm		0.9		A/W
Photo Current	L	Vr=0V,I p=1450nm	10	14		uA(‡1)
Dark Current	lo	Vr=1V			100	nA
Spectral Responsivity (Peak)	I P	Vr=0V	1000		1600	nm
Half Angle of Sensitivity	Q 1/2	Vr=0V		±40		deg.
Total Capacitance	Ст	f=1MHz,Vr=1V		20		рF
Rise/Fall Time(10%~90%)	tr	RL=1KW,VR=1V		10		ns
	tf	I L = I I V V, V R = I V		5		ns

‡ Measured by calibrated tool