

PD018T32 Hermetical sealing type Photodiode

PD018T32 is a PIN-photodiode featuring excellent responsibility and high photocurrent.

This PIN-photodiode consists of a large chip with 1.6mm*1.6mm active area mounted on the TO-18 stem and is hermetical sealed by metal can with ball lens .

These devices are designed to be easy of setting up optically with a wide angle of half sensitivity of ± 10 degree.

†Specifications

1)Product No.	Hermetical sealing type PIN-Photodiode	Outer Dimension
2)type No.	PD018T32	
3)Chip		
(1)Chip size	1.8mm*1.8mm	
(2)Active area	1.6mm*1.6mm	
4)Package		
(1)type	TO-18	
(2)Lens	Glass Spherical Ball Lens	
(3)Cap	Gold Plated	

†Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Reverse Broken down Voltage	V(BR)R	170	V	Ta=25 °C
Operating Temperature e	TOPR	-25~+100	°C	
Storage Temperature	TSTG	-30~+125	°C	
Soldering Temperature	TSOL	240	°C	

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

†Electro-Optical Characteristics (Ta=25 °C)

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Reverse Photo Current	IL	VR=10V L=1000LX		45		uA
Reverse Dark Current	Id	VR=10V			10	nA
Open Circuit Voltage	Voc	VR=10V L=1000LX		410		mV
Spectral Responsibility (peak)				900		nm
Half Angle Sensitivity				±10		deg.
Total capacitance	Ct	VR=10V f=1MHz		18		pF
Rise / Fall time (10%-90%)	Tr	RL=1k VR=10V		30		ns
	Tf			30		ns

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