

PD018D52

Hermetical sealing type Photodiode

PD018D52 is a PIN-photodiode featuring excellent responsivity and high photocurrent.

This PIN-photodiode consists of a large chip with 1.6mm*1.6mm active area mounted on the TO-18 (3pin) 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 ± 45 degree.

†Specifications

1)Product No.	Hermetical sealing type PIN-Photodiode	Outer Dimension
2)type No.	PD018D52	
3)Chip		
(1)Chip size	1.8mm*1.8mm	
(2)Active area	1.6mm*1.6mm	
4)Package		
(1)type	TO-18 (3pin)	
(2)Lens	Glass Flat 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		15		uA
Reverse Dark Current	Id	VR=10V			10	nA
Open Circuit Voltage	Voc	VR=10V L=1000LX				mV
Spectral Responsibility (peak)				900		nm
Half Angle Sensitivity				±45		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

EPITEX INC.: 4, Nishiaketa-cho, Higashi-Kuijo, Minami-Ku, Kyoto, Japan

Tel:++81-75-682-2338 Fax:++81-75-682-2267

e-mail: sales-dep@epitex.com <http://www.epitex.com>