

PD010-01 mold type PIN-Photodiode

PD010-01 is a PIN-photodiode featuring excellent responsibility of 10ns and high photocurrent.
This PIN-photodiode consists of a large chip with 0.8mm*0.8mm active area mounted on a lead frame with a Ø5 clear epoxy lens.

These devices are designed to be easy of setting up optically with a wide angle of half sensitivity of ±15 degrees.

†Specifications

1)Product No.	epoxy mold type PIN-Photodiode	Outer Dimension
2)type No.	PD010-01	
3)Chip		
(1)Chip size	1.0mm*1.0mm	
(2)Active area	0.8mm*0.8mm	
4)Package		
(1)type	Lead Frame	
(2)Resin material	Epoxy resin	

†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		20		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				±15		deg.
Total capacitance	Ct	VR=10V f=1MHz		6		pF
Rise / Fall time (10%-90%)	Tr	RL=1k VR=10V		10		ns
	Tf			10		ns

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