

Lead (Pb) Free Product – RoHS Compliant

PD010-04 mold type PIN-Photodiode

PD010-04 is a PIN-photodiode featuring excellent responsibility of 10ns and high photocurrent.

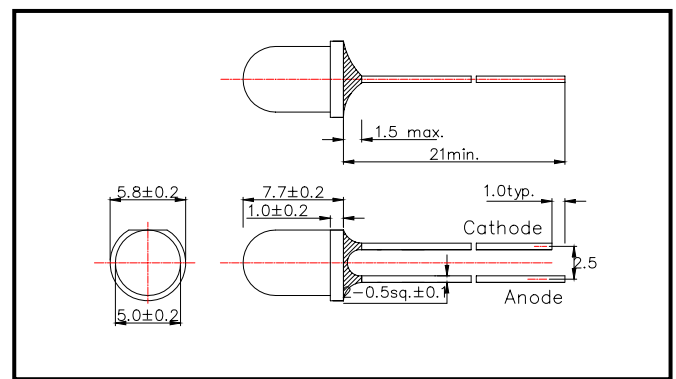
This PIN-photodiode consists of a large chip with 0.8x0.8mm active area mounted on a lead frame with a $\Phi 5$ clear epoxy lens.

These devices are designed to be easy of setting up optically with a wide angle of half sensitivity of ± 45 degrees.

◆Outer dimension (Unit: mm)

◆Specifications

- 1) Product name Mold type PIN-Photodiode
- 2) Type No. PD010-04
- 3) Chip
 - (1) Chip size 1.0mmx1.0mm
 - (2) Active area 0.8mmx0.8mm
- 4) Package
 - (1) Type Lead frame
 - (2) Resin material Epoxy resin



◆Absolute Maximum Ratings [Ta=25°C]

Item	Symbol	Maximum Rated Value	Unit
Reverse Breakdown Voltage	V(BR)R	170	V
Operating Temperature	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 Responsivity (Peak)	λ_P			900		nm
Half Angle of Sensitivity	$\theta_{1/2}$			± 45		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