



PD010-04 mold type PIN-Photodiode

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

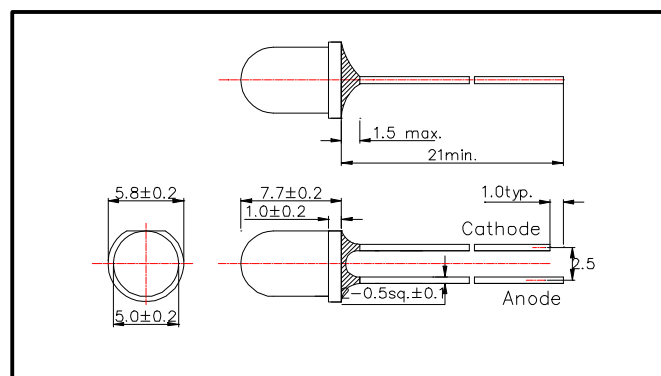
This PIN-photodiode consists of a large chip with 0.8x0.8mm active area mounted on a lead frame with a $\phi 5$ clear epoxy lens.

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

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

Outer dimension (Unit : mm)



Absolute Maximum Ratings [Ta=25°C]

Item	Symbol	Maximum Rated Value	Unit
Reverse Breakdown Voltage	V _{(BR)R}	170	V
Operating Temperature	T _{OPR}	-25 ~ +100	°C
Storage Temperature	T _{STG}	-30 ~ +125	°C
Soldering Temperature	T _{SOL}	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	I _L	V _R =10V, L=1000Lx		20		uA
Reverse Dark Current	I _D	V _R =10V			10	nA
Open Circuit Voltage	V _{OC}	V _R =10V, L=1000Lx		410		mV
Spectral Responsivity (Peak)	I _P			900		nm
Half Angle of Sensitivity	Q _{1/2}			±45		deg.
Total Capacitance	C _T	V _R =10V, f=1MHz		6		pF
Rise/Fall Time(10%~90%)	t _r	R _L =1KW, V _R =10V		10		ns
	t _f			10		ns

EPITEX INC. : 4, Nishiaketa-Cho, Higashi-Kujyou, Minami-Ku, Kyoto, Japan

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

e-mail: sales-dep@epitex.com

<http://www.epitex.com>