

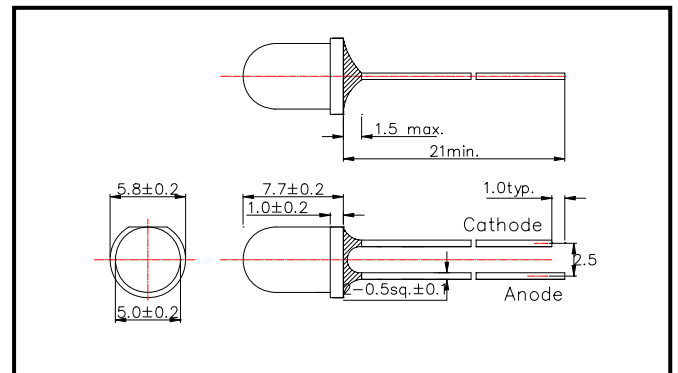
PD010-04B (2) mold type PIN-Photodiode with cut filter

PD010-04B (2) is a PIN-photodiode and featuring excellent responsibility of 10ns. This PIN-photodiode consists of a large chip with 0.8x0.8mm active area mounted on a lead frame with a $\Phi 5$ epoxy lens with visible light cut off filter. 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. PD010-04B (2)
- 3) Chip
 - (1) Chip size 1.0mmx1.0mm
 - (2) Active area 0.8mmx0.8mm
- 4) Package
 - (1) Type Lead frame
 - (2) Filter Resin 2%
 - (3) 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	$V_R=10V, L=1000Lx$		5		μA
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)	λ_P			900		nm
Half Angle of Sensitivity	$\theta_{1/2}$			± 45		deg.
Total Capacitance	C_T	$V_R=10V, f=1MHz$		6		pF
Rise/Fall Time (10%~90%)	t_r t_f	$R_L=1K\Omega, V_R=10V$		10		ns
				10		ns