

## PD010-01 mold type PIN – Photodiode

PD010-01 is a PIN-photodiode featuring excellent responsibility of 10ns and high photocurrent.

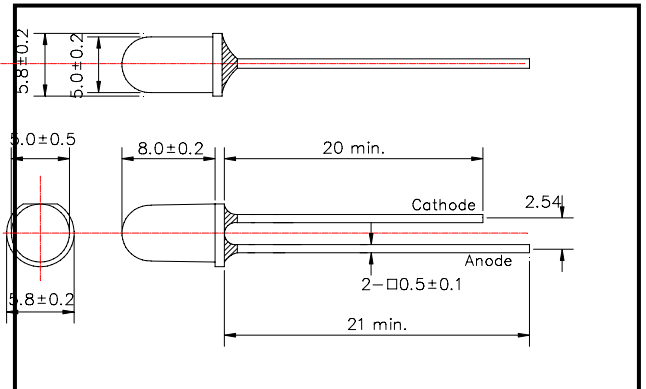
This PIN-photodiode consists of a large chip with 0.8×0.8mm active area mounted on a lead frame with a φ5 clear epoxy lens.

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

### ◆Specifications

- 1) product name epoxy mold type PIN- Photodiode  
 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

### ◆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		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)	$\Delta P$			900		nm
Half Angle of Sensitivity	$\Delta \theta$			±15		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