

PD010-03

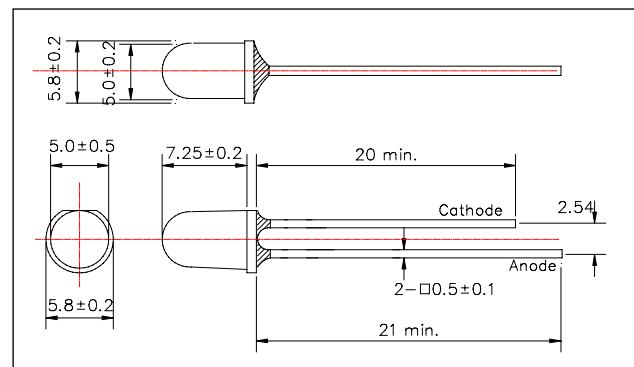
Mold Type Pin-Photodiode

PD010-03 is 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 $\pm 20^\circ$.

<Specifications>

1. Product Name: Epoxy Mold Type Pin-Photodiode
2. Type Number: PD010-03
3. Chip:
 - Chip Size: 1.0mm x 1.0mm
 - Active Area: 0.8mm x 0.8mm
4. Package
 - Type: Lead Frame
 - Resin: Epoxy Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Reverse Breakdown Voltage	VR	170	V
Operating Temperature	TOPR	-25 ~ +100	°C
Storage Temperature	TSTG	-30 ~ +125	°C
Soldering Temperature*	TSOL	240	°C

* Soldering condition must be completed within 2 seconds at 240°C

Electro-Optical Characteristics [Ta=25°C typ.]						
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)	λP			900		nm
Half Angle of Sensitivity	$\theta_{1/2}$			± 20		deg
Total Capacitance	CT	VR=10V, f=1MHz		6		pF
Rise Time	tr	RL=1k Ω , VR=10V		10		ns
Fall Time	tr			10		

