

PD006-33

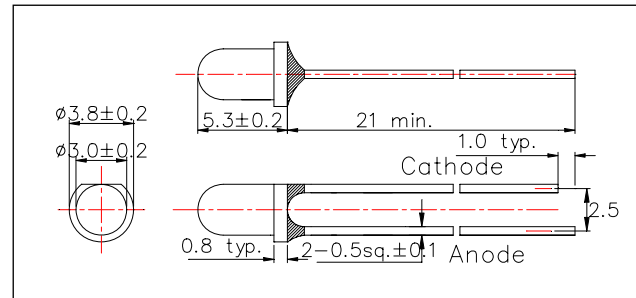
Mold Type Pin-Photodiode

PD006-33 is a PIN-Photodiode featuring excellent responsibility of 6 ns and high photocurrent. This PIN-Photodiode consists of a large chip with 0.44x0.44mm active area mounted on a lead frame with a $\Phi 3$ clear epoxy lens. These device are designed to be easy of setting up optically with a wide angle of half sensitivity of ± 25 degrees.

<Specifications>

1. Product Name: Mold Type Pin-Photodiode
2. Type Number: PD006-33
3. Chip:
 - Chip Size: 0.6mm x 0.6mm
 - Active Area: 0.44mm x 0.44mm
4. Package
 - Type: Lead Frame
 - Resin Material: 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		12		uA
Reverse Dark Current	ID	VR=10V			10	nA
Open Circuit Voltage	VOC	VR=10V, L=1000Lx		390		mV
Spectral Responsibility(Peak)	λP			900		nm
Half Angle of Sensitivity	$\theta_{1/2}$			± 25		deg
Total Capacitance	CT	VR=10V, f=1MHz		6		pF
Rise Time	tr	RL=1k Ω , VR=10V		6		ns
Fall Time	tr			6		

