



Part Number:5054SMD-PD-1mm

## Features

- ◆ High speed
- ◆ High responsivity
- ◆ Low capacitance
- ◆ Top illuminated planar structure
- ◆ The product itself will remain within RoHS compliant version

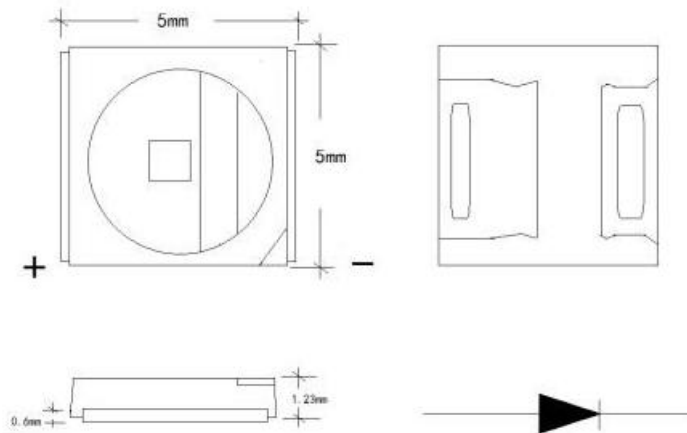
## Description

- ◆ 5054SMD-PD-1mm is a high speed and high sensitive photodiode in a standard 5054SMD package.
- ◆ The device is sensitive to infrared radiation.

## Applications

- ◆ Monitoring
- ◆ Fiber-optic Instruments
- ◆ Data communications

## Package Dimension:



Part NO.	Chip	Lens Color
	Material	
5054SMD-PD-1mm	InGaAs/InP	white

## Notes:

1. All dimensions are in millimeters (inches).
2. Tolerances unless dimensions  $\pm 0.25\text{mm}$ .
3. Lead spacing is measure where the lead emerges from the package.



### Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_{Rmax}$	20	V
Operating Temperature	$T_{opr}$	-25~+85	°C
Storage Temperature	$T_{stg}$	-40~+85	°C
Soldering Temperature(1/16 inch from body for 3 seconds)	$T_{sol}$	230	°C

### Electrical Optical Characteristics:

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Response range	$\lambda_p$	900		1650	nm	
Responsivity	R	0.85	0.9		A/W	$\lambda_p=1310nm$
			0.95			$\lambda_p=1550nm$
Dark current	$I_D$		1.5	10	nA	$V_R=5V$
Capacitance	C		50	80	pF	$V_R=5V f=1MHZ$

### Precautions for use

This PD LED is susceptible to damage as a result of ESD . Use of ground straps,antistatic mats,and other standard ESD protective equipment is requisite when handling or testing an InGaAs or GaAs PIN/APD chip.