

# InGaAs Photodiode - PD-InGaAs-P Series

- High Responsivity
- 800nm-1800nm Spectral Range
- SM/MM Fiber Pigtailed with Optional FC/ST/SC Connector

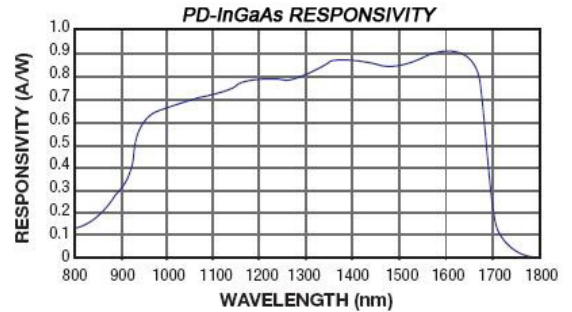
PHOTONIK<sup>hv</sup>

## Fiber Pigtailed



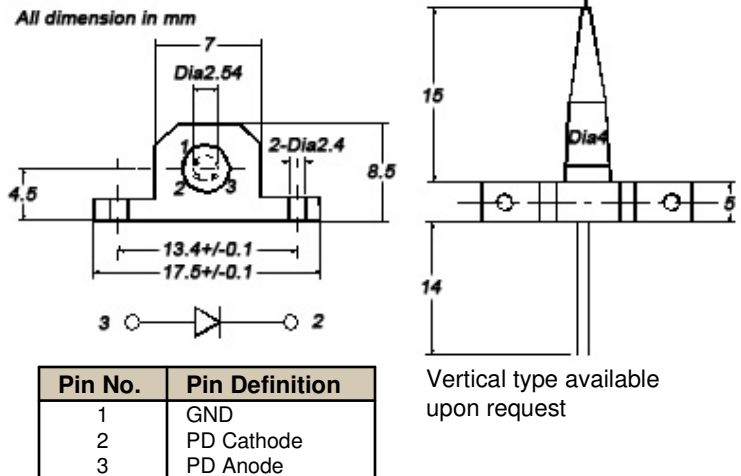
## Key Features:

- TO package, Large-area PD
- High Response within 1.0~1.65 μm
- Low Dark Current
- Fast pulse response
- Broad Dynamic Range
- High Reliability, High Uniformity
- -40 ~ 85°C operating temperature
- Hermetically sealed 3-pin metal case



General Specifications (T=25 °C)	
Parameters	Value
Material	InGaAs
Wavelength Range (nm)	800 ~ 1800
Active Area (um)	≤ Ø120
Responsivity (A/W)	0.85/0.90@ 1310nm 0.90@ 1550nm
Bandwidth (FWHM)	DC-5.0GHz
Rise Time (ps)	< 70
Optical Return Loss (dB)	> 40dB
Capacitance (pf, 5V)	1.0
Dark Current (nA, 5V)	< 0.5
Operation Voltage (V)	+5 ~ +15
Operation Temperature (°C)	- 40 ~ + 85
Bending Radius (mm)	≥ 30
Linear Range (dBm)	±0.15
Input Power (dBm)	-70 ~ 3
Package Style	TO-46
Fiber Length (m)	1.15 min; 1.25 max

Absolute Maximum Ratings (T=25 °C)	
Reverse Voltage (V)	20
Optical Current (mA)	10
Forward Current (mA)	10
Power Waste (mW)	100
Storage Temperature (°C)	-40 ~ 100
Operating Temperature (°C)	- 40 ~ 85
Lead Soldering Temperature (°C)	250
Lead Soldering Duration (s)	5.5



## Ordering Information:

P/N: PD-InGaAs-P-①-②-③

- ① Connector Type: None (①=NO); FC/UPC (①=FU); SC/UPC (①=SU); ST/UPC (①=STU); FC/APC (①=FA); SC/APC (①=SA); ST/APC (①=STA)
- ② Fiber Pigtail Type: 9/125μm SM Fiber (②=1); 50/125μm MM Fiber (②=2); 62.5/125μm MM Fiber (②=3)
- ③ Mount: No flange (③=0); Standard mount (③=1); Optional mount (③=2)

## Safety Information:

1. Protection of the product should abide by precautions of electrostatic sensitive organ.
2. When sealing pins soldering irons should be grounded to avoid breakdown.
3. Pins should avoid bend or twist which will bring break or damage.

## Contact Information:

PHOTONIK (SINGAPORE) PTE LTD

8 Boon Lay Way, TradeHub 21, #04-04, Singapore 609964  
 Tel: +65-6316-6370, +65-6316-2142 Fax: +65-6316-1082  
 Email: sales@photonik.com.sg Web: www.photonik.com.sg

## Local Representative:

