

# 1201 Photodiode

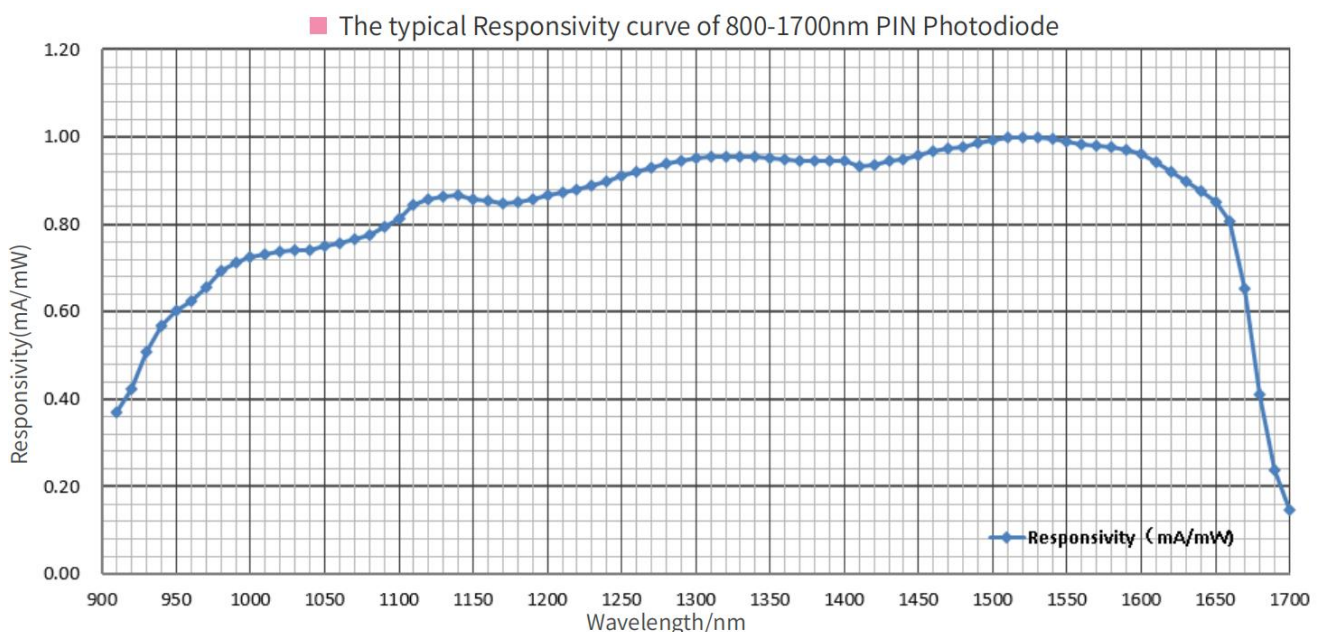
PD3003



## 800 nm to 1700 nm InGaAs PIN Fast Photodiode

Part No.	Photosurface (μm)	Response Wavelength (nm)	Responsivity (mA/mW@nm)	Dark Current (pA@V)	Rise Time (ps@V)	Capacitance (pF@V)
PD3003-1	Φ40	800 to 1700	0.8@1310 0.85@1550	0.15@0V 20@-5V	60 ps (6 GHz) @-5 V	100@0 0.4@-5
PD3003-2	Φ50	800 to 1700	0.85@1310 0.9@1550	0.1@0V 5@-5V	120 ps (3 GHz) @-5 V	320@0 0.8@-5
PD3003-3	Φ75	800 to 1700	0.85@1310 0.9@1550	0.2@0V 30@-5V	40 ps (2.5 GHz) @-5 V	400@0 1@-5
PD3003-4	-	800 to 1700	0.75@1310 0.8@1550	100@0 2000@-5	16@-5	60@0 0.1@-5

Part No.	Response Wavelength (nm)	Differential Output Voltage (mV)	Small Signal Bandwidth (-3 dB, Vr=Vbr-3 V)	Sensitivity (PRBS=2 <sup>23</sup> -1, BER=10 <sup>-10</sup> , 1310 nm, ER=10 dB@2.5 Gbps, Vr =Vbr-3)	Transimpedance (kΩ)	TIA Operating Voltage (V)	TIA Operating Current (mA)
PD3003-5	800 to 1700	300	8.7 GHz	-15.5 dBm	9	3.3±0.2	28 typ.; 35 max.



**Order notes to our customers:** The default parameters are as follows. For special needs, please contact sales.  
**1) Connector FC/APC, 900 μm, 1 m by default for all devices except for high power devices.**  
**2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.**