GaAs PIN PHOTODIODES PD-8150 Series

PIN Photodiode with Mini-Size TO Package

FEATURES

- High Responsivity for 850 nm
- Low Dark Current
- Quick Pulse Response
- 2.4 mm Mini-Size Package
- Active Diameter 100 μm

DESCRIPTION

PD-8150 series InGaAs Photodiode are suited to receive the light at the wavelength range from 600 nm to 1000 nm. With high reliability, PD-8150 series are the best choice for datacom application.

PD-8160-100 ELECTRICAL AND OPTICAL CHARACTERISTICS (T_C=25°C)

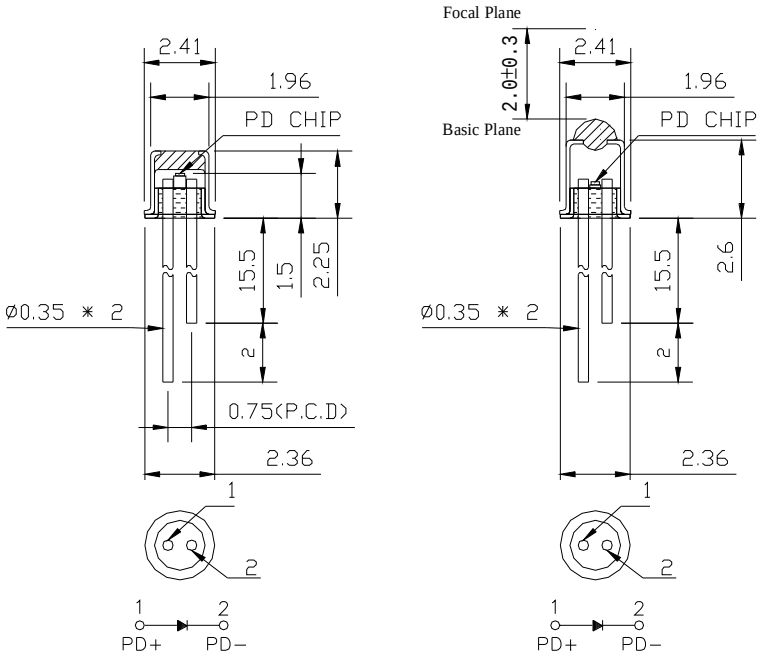
Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
	Active Area			100		μm
	Detection Range		600		1000	nm
R	Responsivity	V_R=5V, λ=850nm	0.45	0.5	-	A/W
I_{dark}	Dark Current	V_R=5V			0.5	nA
C	Capacitance	V_R=5V			0.7	pF
T_r /T_f	Rise/Fall Time	V_R=5V, 10~90%			0.3	ns
BW	Bandwidth	V_R=5V	2			GHz

ABSOLUTE MAXIMUM RATINGS (T_C=25 °C)

Symbol	Parameter	Ratings	Unit
Po	Input Optical Power	10	mW
V_{RD}	Reverse Voltage	20	V
I_{FD}	Forward Current	10	mA
T_{opr}	Operating Temperature	-40~+85	°C
T_{stg}	Storage Temperature	-40~+85	°C

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MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT



PD-8150 PD-8155

ORDER INFORMATION

Part No.: P D - 8 1 5 □ - □ □ □

Code	Cap
0	Flat Window
5	Ball lens

Code	Chip Diameter
100	100 μm