

## InGaAs PIN PHOTODIODE

**PD-1170**

### 3 mm InGaAs PIN Photodiode with TO-5 Package

#### FEATURES

- 2 High responsivity for dual windows at 1310 nm and 1550 nm
- 2 Low dark current
- 2 Hermetically sealed TO-5 3-pin metal case
- 2 Active diameter 3 mm
- 2 Flat Window Cap Package

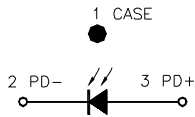
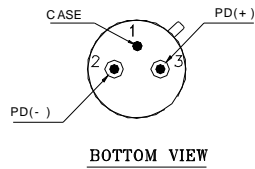
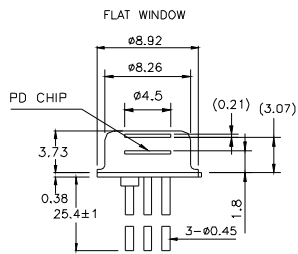
#### DESCRIPTION

PD-1170 InGaAs Photodiode are suited to receive the light at the wavelength range from 800 nm to 1650 nm. With high reliability, PD-1170 series are the best choice for power monitor application.

ELECTRICAL AND OPTICAL CHARACTERISTICS (T <sub>c</sub> =25°C)						
Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
	Active Area			3		mm
	Detection Range		800		1650	nm
R	Responsivity	V <sub>R</sub> =3V, λ=1300 nm	0.85	0.9		A/W
		V <sub>R</sub> =3V, λ=1550 nm	0.90	1.0		
I <sub>dark</sub>	Dark Current	V <sub>R</sub> =3V			50	nA
C	Capacitance	V <sub>R</sub> =3V		750	1800	pF
	Shunt Resistance	V <sub>R</sub> =10mV	1	10		MΩ

ABSOLUTE MAXIMUM RATINGS (T <sub>c</sub> =25 °C)			
Symbol	Parameter	Ratings	Unit
P <sub>o</sub>	Input Optical Power	10	mW
V <sub>RD</sub>	Reverse Voltage	5	V
I <sub>FD</sub>	Forward Current	10	mA
T <sub>opr</sub>	Operating Temperature	-40~+85	°C
T <sub>stg</sub>	Storage Temperature	-40~+85	°C

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**MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT**



**Note:** 1. Specifications subject to change without notice.

**ORDER INFORMATION**

**Part No.: P D - 1 1 7 0**