

## InGaAs PIN PHOTODIODES

## PD-1180

### 1 mm InGaAs PIN Photodiode with TO-46 Package

#### FEATURES

- 2 High responsivity for dual windows at 1310 nm and 1550 nm
- 2 Low dark current
- 2 Hermetically sealed 3-pin TO-46 metal case
- 2 Active diameter 1 mm

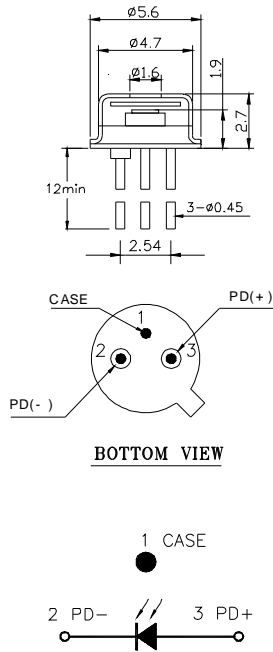
#### DESCRIPTION

PD-1180 InGaAs Photodiode is suited to receive the light at the wavelength range from 800 nm to 1650 nm. With high reliability, PD-1180 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			1000		μm
	Detection Range		800		1650	nm
R	Responsivity	V <sub>R</sub> =5V, λ=1300nm	0.85		-	A/W
		V <sub>R</sub> =5V, λ=1550nm	0.9		-	
I <sub>dark</sub>	Dark Current	V <sub>R</sub> =5V			5	nA
C	Capacitance	V <sub>R</sub> =5V		100		pF
R <sub>shunt</sub>	Shunt Resistance		10			MΩ
BW	Bandwidth	V <sub>R</sub> =5V	30			MHz

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	10	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.  
2. Other PIN assignment is available upon request.

## ORDER INFORMATION

**Part No.: P D - 1 1 8 0**