

## InGaAs PIN PHOTODIODE

PD-1190

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

#### FEATURES

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

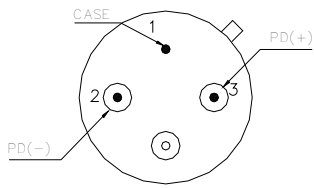
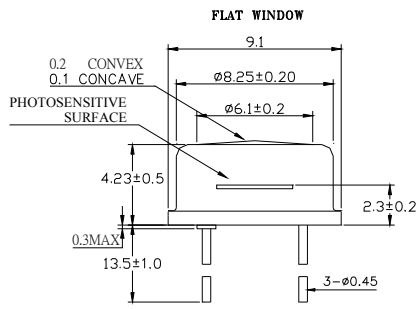
#### DESCRIPTION

PD-1190 InGaAs Photodiode are suited to receive the light at the wavelength range from 800 nm to 1650 nm. With high reliability, PD-1190 series are the best choice for power monitor application.

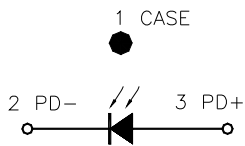
ELECTRICAL AND OPTICAL CHARACTERISTICS (T <sub>c</sub> =25°C)						
Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
	Active Area			2		mm
	Detection Range		800		1650	nm
R	Responsivity	V <sub>R</sub> =3V, λ=1300 nm	0.85	0.9		A/W
		V <sub>R</sub> =3V, λ=1550 nm	0.90	1.0		
I <sub>dark</sub>	Dark Current	V <sub>R</sub> =3V		5	30	nA
C	Capacitance	V <sub>R</sub> =3V		400	1000	pF
	Shunt Resistance	V <sub>R</sub> =10mV	5	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

MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT



BOTTOM VIEW



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

ORDER INFORMATION

Part No.: P D - 1 1 9 0

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Revision History

Version	Subject	Release Date
1.0	Initial datasheet	2003/8/1
2.0	Mechanical dimension modification	2009/4/9