3 mm Diameter InGaAs PIN Photodiode
TO-5 Package

PD-LD Inc. offers a variety of standard and custom large active area InGaAs PIN Photodiodes in fiber coupled packages. These semiconductors are of proven manufacture and design. InGaAs is optimal from 1000 to 1650nm . All devices are available in fiber pigtailed co-axial packages or in connector style receptacle packages.

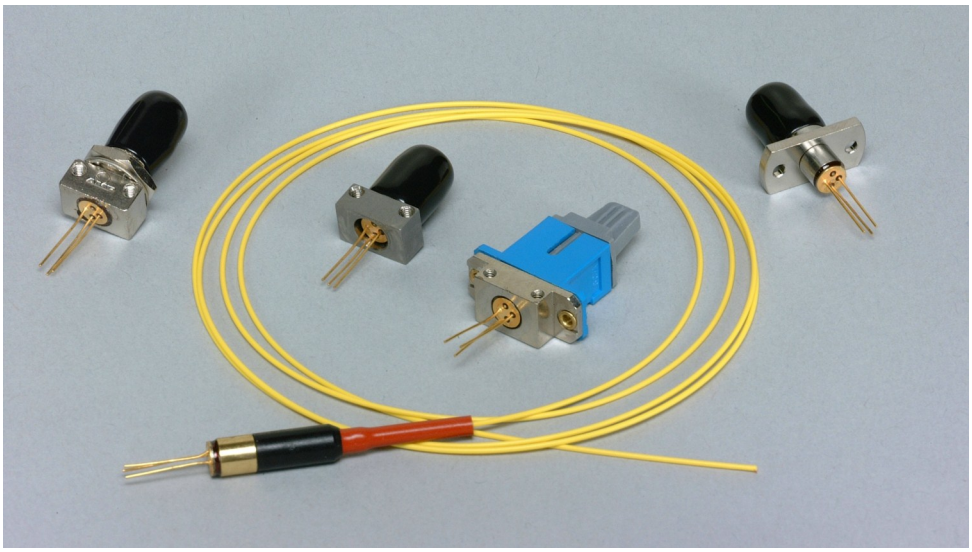
Pigtailing

Devices can be pigtailed with any size optical fiber that is compatible with its active area size. Pigtails may range in core size from 3 um to 200 micron. One meter is the standard length, but any length or connector termination may be specified. Pigtails may be terminated with ST, FC, SC and LC connectors with either PC or APC polish.

Receptacles

Standard ST, FC and SC housings are available in both panel and board mountable versions. These receptacles can be optimized for use with both single mode and multimode optical fibers.

RoHS Compliant



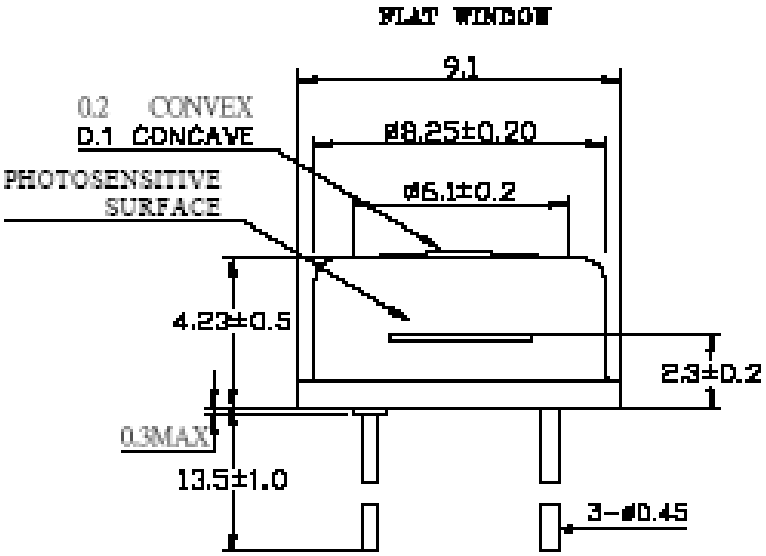
Manufacturing

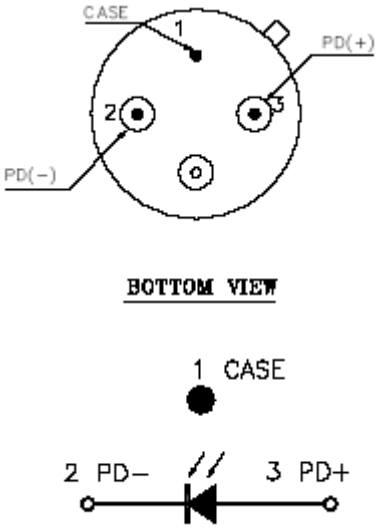
PD-LD Inc. maintains a large inventory of the most popular detector sizes and pin-outs. Efficient package designs and manufacturing processes allow PD-LD to rapidly support both small and large volume requirements. Complete 100% testing of all critical parametric device values ensure optimal performance and quality. Not all receptacle packaging styles are represented on this data sheet, so please contact PD-LD for specific needs.

170-10455-69 InGaAs PIN Photodiode TO-5 Package					
Parameter	**Unit**	**Min.**	**Typical**	**Max**	**Test Conditions**
Wavelength	nm	800		1650	
Active Area	mm		3		
Responsivity	A/W	0.85	0.90		Vr=3V 1550nm
Dark Current	nA		3.0	50	Vr=3V, Tc=25°C
Capacitance	pF		750	1800	Vr=3V
Shunt Resistance	M Ohm	1	10		Vr=10mV

PD-LD, Inc.
30-B Pennington-Hopewell Road , Pennington NJ 08534 TEL: 609-564-7900 FAX: 609-564-7901 E-MAIL: info@pd-

Pinout & Mechanical Dimensions (mm)





Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	5	V
Forward Current	I_F	10	mA
Operating Temperature	T_{OPR}	-40 to 85	°C
Storage Temperature	T_{STR}	-40 to 85	°C
Input Optical Power	P	10	mW
Soldering Temperature		260/10	°C/sec

PD-LD, Inc.
30-B Pennington-Hopewell Road , Pennington NJ 08534 TEL: 609-564-7900 FAX: 609-564-7901 E-MAIL: info@pd-