

Dia. 3mm Active Area InGaAs PIN Photodiode

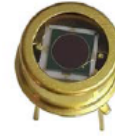
Part No. PDT-LF05A3-INA | PDT-LF05A3-INB

Features

- High reliability, low dark current
- 800-1700nm spectral range
- Active diameter 3mm
- Hermetic TO5 can

Applications

- Optical sensor and optical power meter
- Industrial automatic control
- Science analysis and experiment
- Space light detect equipment
- Response spectrum testing



PDT-LF05A3-INA

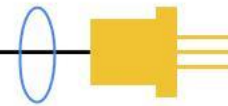


PDT-LF05A3-INB

Specifications

Electro-Optical Characteristics (T=25°C)						
Parameters	Symbol	Min.	Typ.	Max.	Unit	Conditions
Active Diameter	Φ		3		Mm	
Spectral Range	λ	800		1700	nm	
Responsivity	R_e		0.85 0.9		mA/mW	$V_R=0V, \lambda=1310nm$ $V_R=0V, \lambda=1550nm$
Response Time	T_r		120			$R_L=50ohm, V_R=5V$
Dark Current	I_d		1.5 7		nA	$V_R=0V$ $V_R=5V$
Reverse Breakdown Voltage	V_{BR}		20			$I_R=10uA$
Junction Capacitance	C_j		2000 1000		pF	$f=1MHz, V_R=0V$ $f=1MHz, V_R=5V$
Saturated Optical Power	P_{sat}		12			mW
Operating Voltage	V_R	0		5	V	
Shunt Resistance	R_{sh}		6		M Ω	

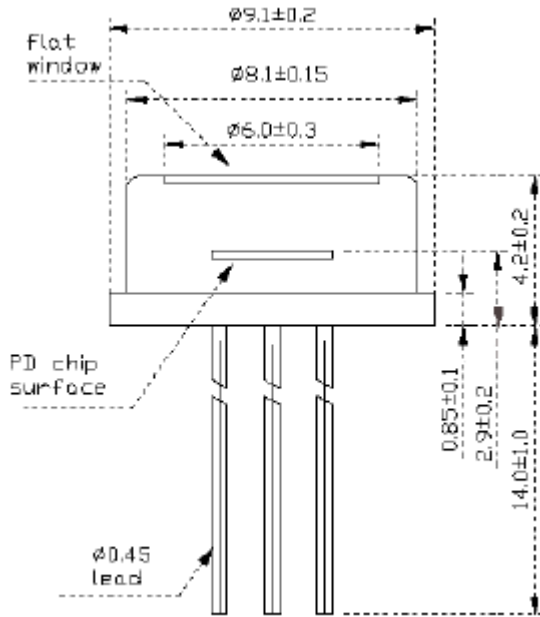
Absolute Maximum Ratings					
Parameters	Min.	Max.	Unit	Conditions	
Storage Temperature	-40	100	°C		
Operating Temperature	-40	85	°C		
Lead Solder Temperature		260	°C	10 seconds	
Forward Current		16	mA		
Reverse Voltage		20	V		



Outline Dimensions (unit: mm)

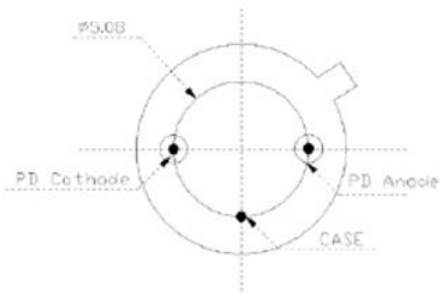
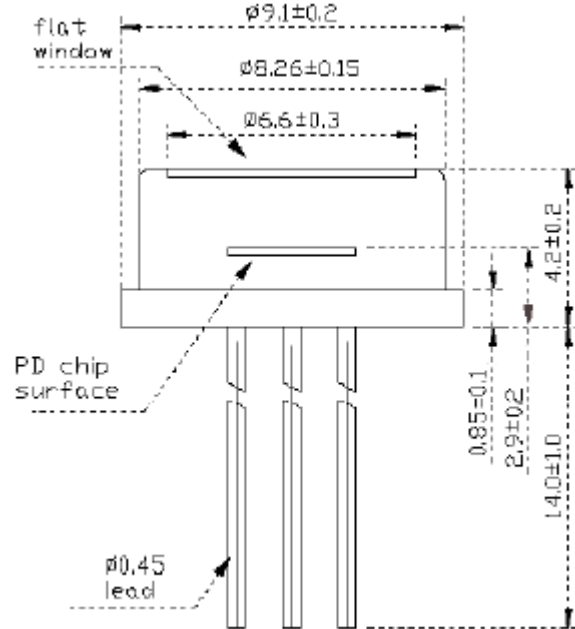
PDT-LF05A3-INA

TO-5 Can with Flat Window Dia. 8.1mm Au cap

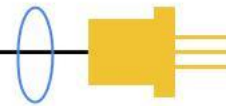


PDT-LF05A3-INB

TO-5 Can with Flat Window Dia. 8.25mm Nickel cap

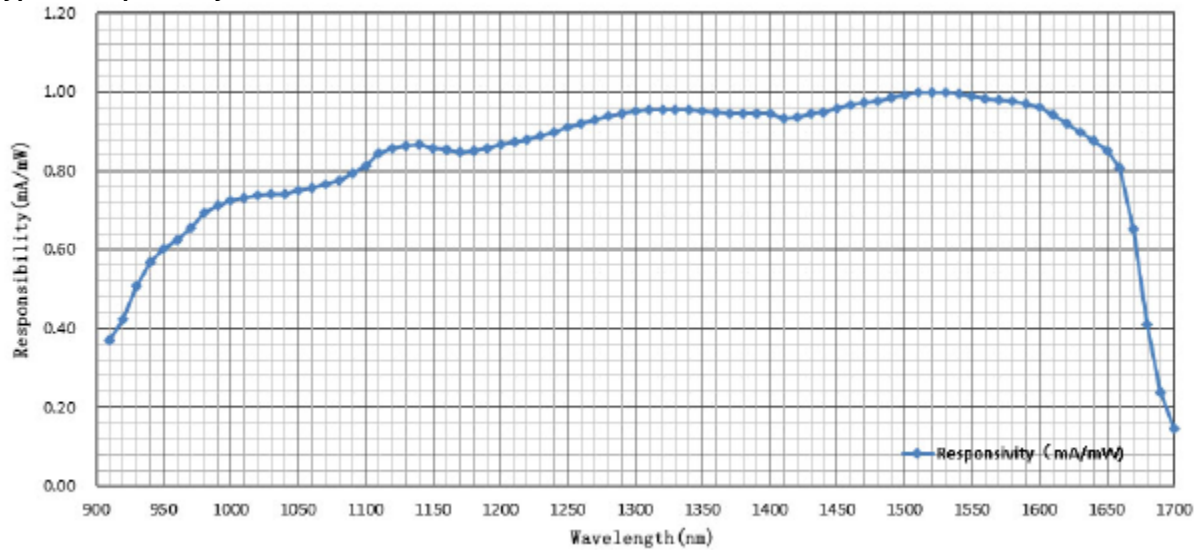


3 PIN Bottom View



Typical Characteristics

Typical Responsivity Curve



Ordering Information

Part Number	Package
PDT-LF05A3-INA	TO-5 Can with Flat Window Dia. 8.1mm Au cap
PDT-LF05A3-INB	TO-5 Can with Flat Window Dia. 8.25mm Nickel cap

Additional Notes

1. Specifications are subject to change without notice.
2. The suitable ESD protective measures are needed in storage, transportation and handling.
3. The fiber bending radius no less than 20mm to avoid fiber damage. Be sure the fiber coupling facet is clean before connecting to opto-circuit.