LP-1654N-AOX-23XNO

1653.7nm,InGaAsP/InP PD in TO46 package,



Description

The 1654nm products are PD in TO46 package for Methane sensing applications.All PD chips come from wafers that have been certified using a representative lot of chips that must achieve an acceptable yield for chip test and dynamic test and Burn-in.

Features

- For 1653.7 wavelength.
- High responsibility.
- Low dark current.
- High reliability design.
- RoHS Compliant.
- 100%test over temperature.
- Operating temperature:-40~85℃ .
- Package:TO 46.

Application

- Methane Sensing.

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OPTICAL ELECTRICAL CHARACTERISTICS

Parameters are tested at 25℃ unless otherwise specified.

Parameter	Condition	Unit	LSL	Typ	USL
Active Diameter		mm		0.2	
Spectral Range		nm	900		1740
Responsivity	Vr=1V,λ=1550nm	A/W	0.9	1.1	
	Vr=1V,λ=1650nm	A/W	0.9	1.1	
Dark Current	Vr=1V	nA		0.2	1
Reverse Breakdown Voltage	Id=10uA	V	25	39	
Junction Capacitance	f=1MHz,Vr=1V	pF		4	
Operating Voltage		V	-5		0
Serial Resistance	**f=7mA and 10mA**	Ω		**25**	**40**
Shunt Resistance	Vr=10mV	**MQ**		**300**	
Package Case Style	**TO-46 with ball lens**				

LOW TEMPERATURE PERFORMANCE(T=-10℃)

Parameter	Condition	Unit	LSL	Typ	USL
Responsivity	Vr=1V,λ=1650nm	A/W		0.9	
Dark Current	Vr=1V	nA		0.01	0.5

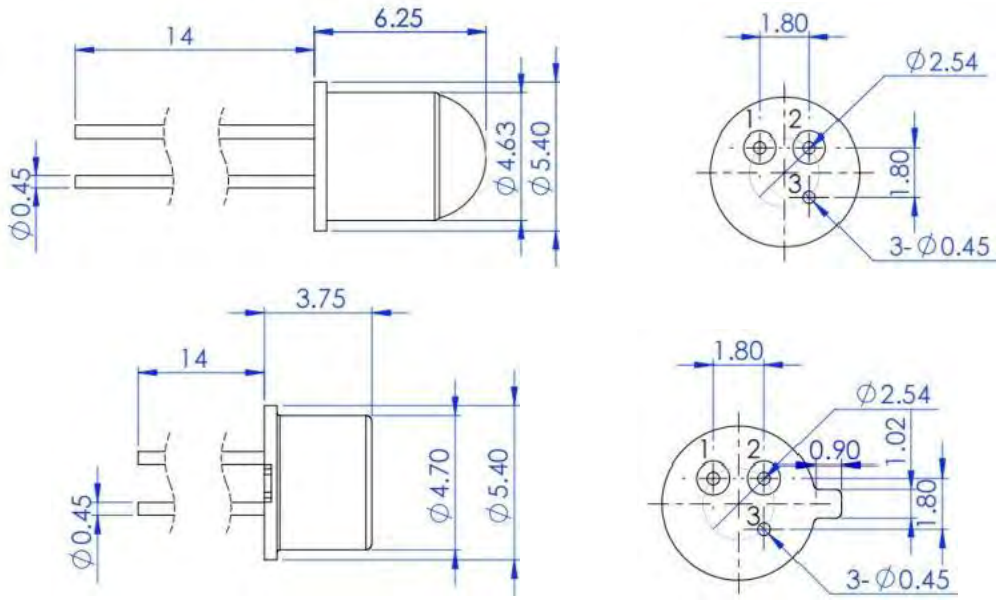
ABSOLUTE MAXIMUM RATINGS

Parameter	Unit	Value
Storage Temperature	℃	**-40-125**
Operating Temperature	**c**	**-40-85**
Reverse Voltage	**V**	**5**
Reverse Current	**mA**	**10**
Forward Current	**mA**	**10**

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PACKAGE

TO-46 with 3 pins (Unit:mm):



Pin Assignment

PIN No	Definition-1	PIN No	Definition-2
1	PDCathode	1	PDAnode
2	Case	2	PD Cathode
3	PDAnode	3	Case

Ordering Information

Part Number	Description
LP-1654N-AOX-23XNO X1:Pin Definition X2:3=Big Ball,4=Flat Window	1653.7 nm PD in TO46 page