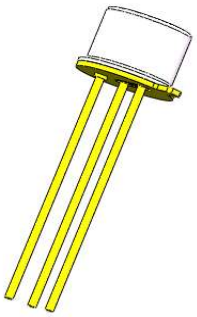
产品介绍/Product Introduction

ND7020是一款具有高可靠性的TO46封装的InGaAs PD。
ND7020 is an InGaAs PD in TO46 package with high reliability.

特点/Features

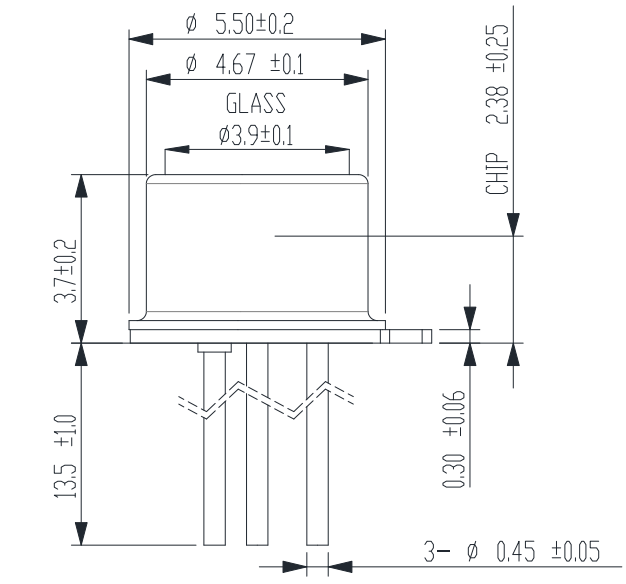


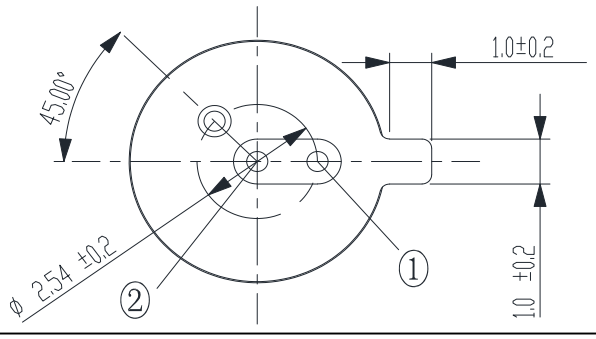
- TO46封装，高可靠性
  TO46 package, high parallelism
- 900-1650nm响应光谱范围
  900-1650nm spectral range
- 低暗电流，低结电容
  Low dark current and low junction capacitance

用途/Application

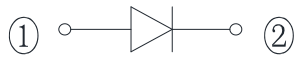
- 光电传感器
  Photoelectric sensor
- 光功率计
  Optical power meter

尺寸图/Device Dimensions（mm）





Notes
1.PIN configuration:



极限值/Maximum Ratings

(Ta= 25℃)

项目 Item	符号 Symbol	额定值 Rating	单位 Unit
正向电流 Forward Current	I_F	9	mA
反向电压 Reverse Voltage	V_R	20	V
工作温度 Operating Temp.	Topr.	-40～+85	℃
存储温度 Storage Temp.	Tstg.	-40～+125	℃
焊接温度*1 Soldering Temp.	Tsol.	260	℃

Note: *1. 距离底板3mm，手动焊接，不超过5秒
Manual soldering 3mm from the base plate, max. 5 seconds.

光电特性/Electro-Optical Characteristics

(Ta= 25℃)

项目 Item	符号 Symbol	条件 Condition	最小 Min.	典型 Typ.	最大 Max.	单位 Unit
暗电流 Dark Current	I_D	V_R=5V		1	5	nA
响应度 Responsivity	Re	λ=850nm		0.17		A/W
		λ=1310nm		0.85		
		λ=1550nm		0.90		
光谱范围 Wavelength Range	λ	-	900	-	1650	nm
峰值波长 Peak Wavelength	λ_P	-		1550		nm
有效直径 Active Diameter	Φ	-		0.3		mm
结电容 Capacitance	C_j	V_R=5V, f=1MHz		10		pF
		V_R=0V, f=1MHz		26		pF

使用注意事项/Precautions for use

此PD容易因静电放电而损坏。在处理或测试此产品时，需要使用接地片、防静电垫和其他标准ESD保护设备。

This PD is easily damaged by electrostatic discharge. Grounding strips, anti-static pads and other standard ESD protection equipment are required when handling or testing this product.