产品介绍/Product Introduction

NL9415S一款小角度940nm LED光源，采用Can Type封装。
The NL9415S is a small angle 940nm LED light source, packaged in CAN TYPE format.

特点/Features

- 较小的辐射角
  Small radiation angle

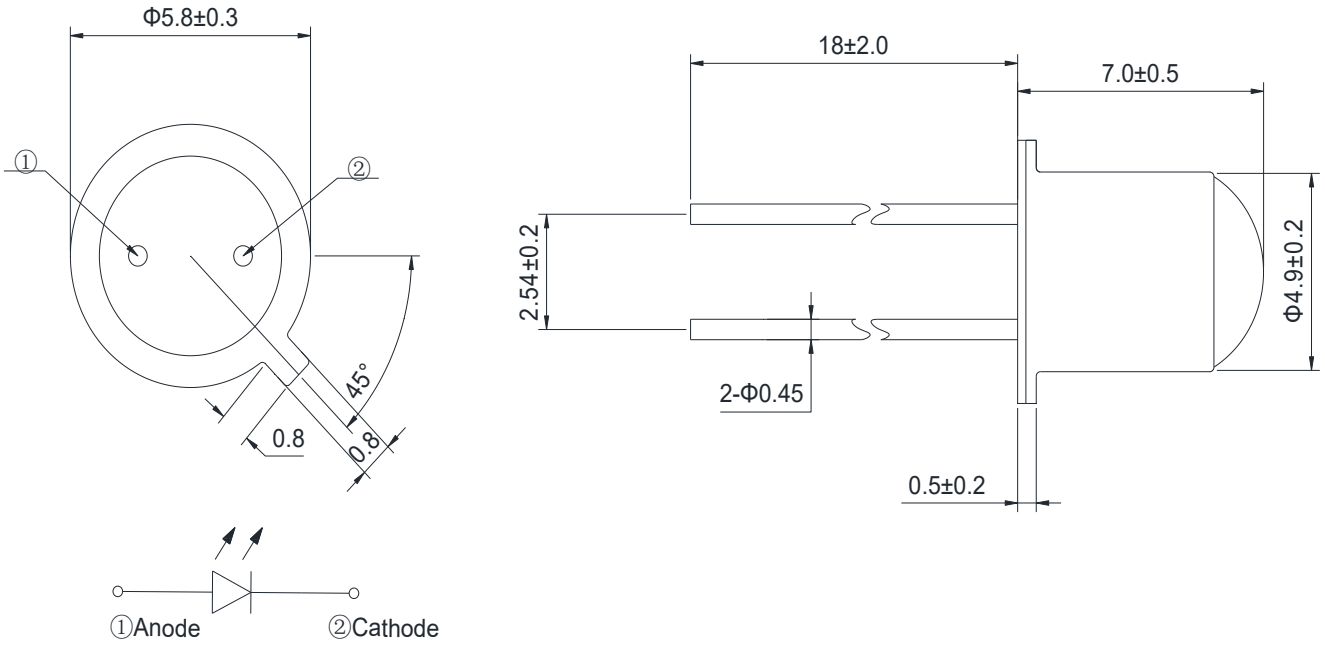
- 高光功率
  High optical power

- 峰值波长 940nm
  Peak wavelength 940nm

用途/Application

- 光电传感器
  Photoelectric sensor

尺寸图/Device Dimensions（mm）



极限值/Maximum Ratings

(Ta= 25°C)

项目 Item	符号 Symbol	额定值 Rating	单位 Unit
正向电流 Forward Current	I_F	100	mA
反向电压 Reverse Voltage	V_R	10	V
功耗 Power Dissipation	P_D	170	mW
工作温度 Operating Temp.	Topr.	-30～+100	°C
存储温度 Storage Temp.	Tstg.	-40～+120	°C
焊接温度*1 Soldering Temp.	Tsol.	260	°C

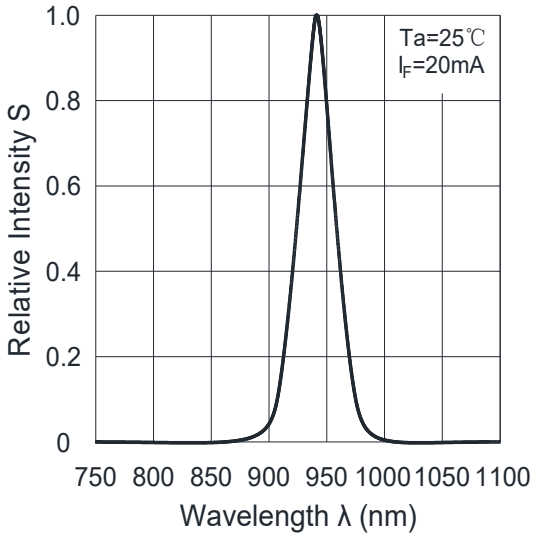
*1 距离基座3mm，最大5s
3mm from case for Max. 5 seconds.

光电特性/Electro-Optical Characteristics

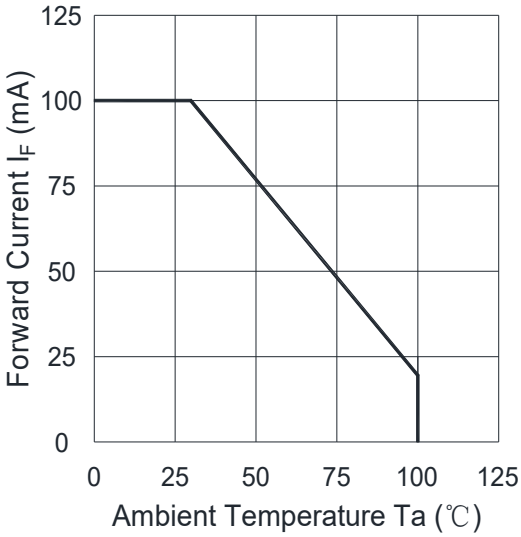
(Ta= 25°C)

项目 Item	符号 Symbol	条件 Condition	最小 Min.	典型 Typ.	最大 Max.	单位 Unit
正向压降 Forward Voltage	V_F	I_F=20mA	-	1.3	-	V
反向电流 Reverse Current	I_R	V_R=10V	-	-	10	μA
输出功率 Output Power	P_O	I_F=20mA	-	3.8	-	mW
峰值波长 Peak Wavelength	λ_P	I_F=20mA	-	940	-	nm
半值角 Half Angle	△θ	I_F=20mA	-	7	-	deg.

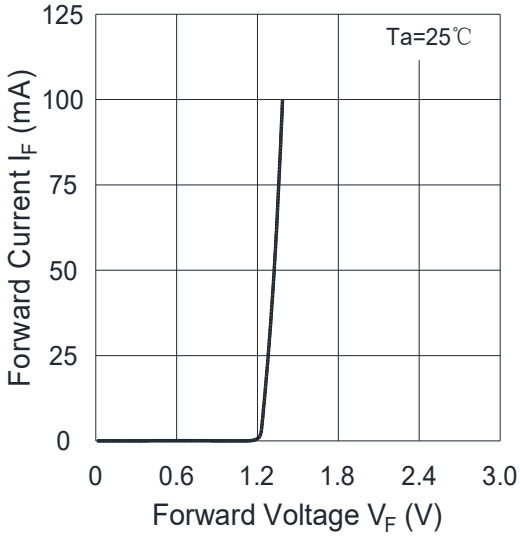
S Vs. λ



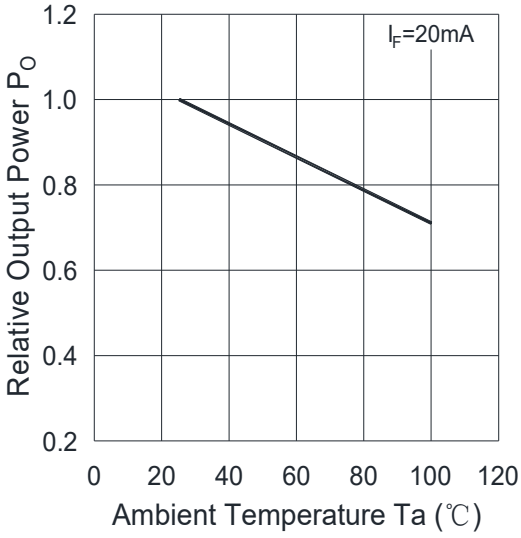
I_F Vs. Ta



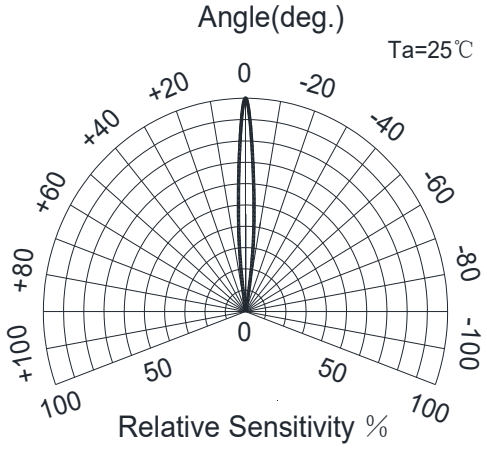
I_F Vs. V_F



P_O Vs. Ta



Divergence Angle



P_O Vs. I_F

