XL-2520IRC/T 技术数据表 Technical Data Sheet

2520 红外发射940nm 直插小蝴蝶

特点（characteristic）：

L/W/H :2.1*2.3*2.6*Ø1.8mm

Appearance dimension (L / w / H): 2.1*2.3*2.6*Ø1.8mm

: 940nm/

Luminous color and colloid: infrared 940nm /Water colloid

ROHS

Environmental protection products meet ROHS requirements

* MSL

电性参数

Electrical Characteristics

Absolute Maximum Ratings Ta=25

		-20 ~ +85 C	
		-40 ~ +85 C	
(Welding conditions)	Tsol	reflow soldering 240°C 6s manual welding 300°C 3s 2.0mm	

Initial Electrical Optical Characteristics Ta=25

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test conditions

Remarks: 1.The luminous intensity is determined by the combination of optical fiber and filter, so it is close to the visual induction curve

2. Half intensity angle is the off-axis angle when the axial luminous intensity is half

3. Main wavelength λ D is derived from CIE chromaticity diagram, representing a single wavelength, which defines the color of the device

辐射强度:
Radiation intensity

代码 Code	最小值 Min	最大值 Max	单位 Unit	测试条件 Test conditions
P1-2	3	5	mW/Sr	IF=20mA
P1-3	5	10		

电压分档:
Voltage grading:

代码 Code	Min	最大值 Max	单位 Unit	测试条件 Test conditions
M17-3	1.3	1.5	V	IF=20mA
M17-4	1.5	1.7		

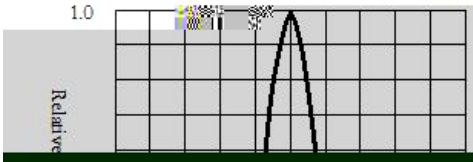
波长分档:
Wavelength grading:

代码 Code	最小值 Min	最大值 Max	单位 Unit	测试条件 Test conditions
IR02	930	940	nm	IF=20mA
IR03	940	950		

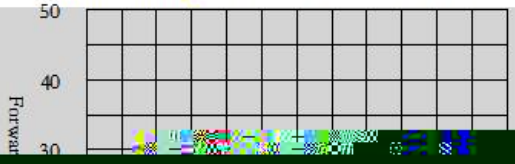
典型特性曲线

Typical Characteristics Curves

光谱分布曲线
Relative Intensity Vs. Wavelength



环境温度与电流的关系
Forward current derating curve Vs. Ambient temperature



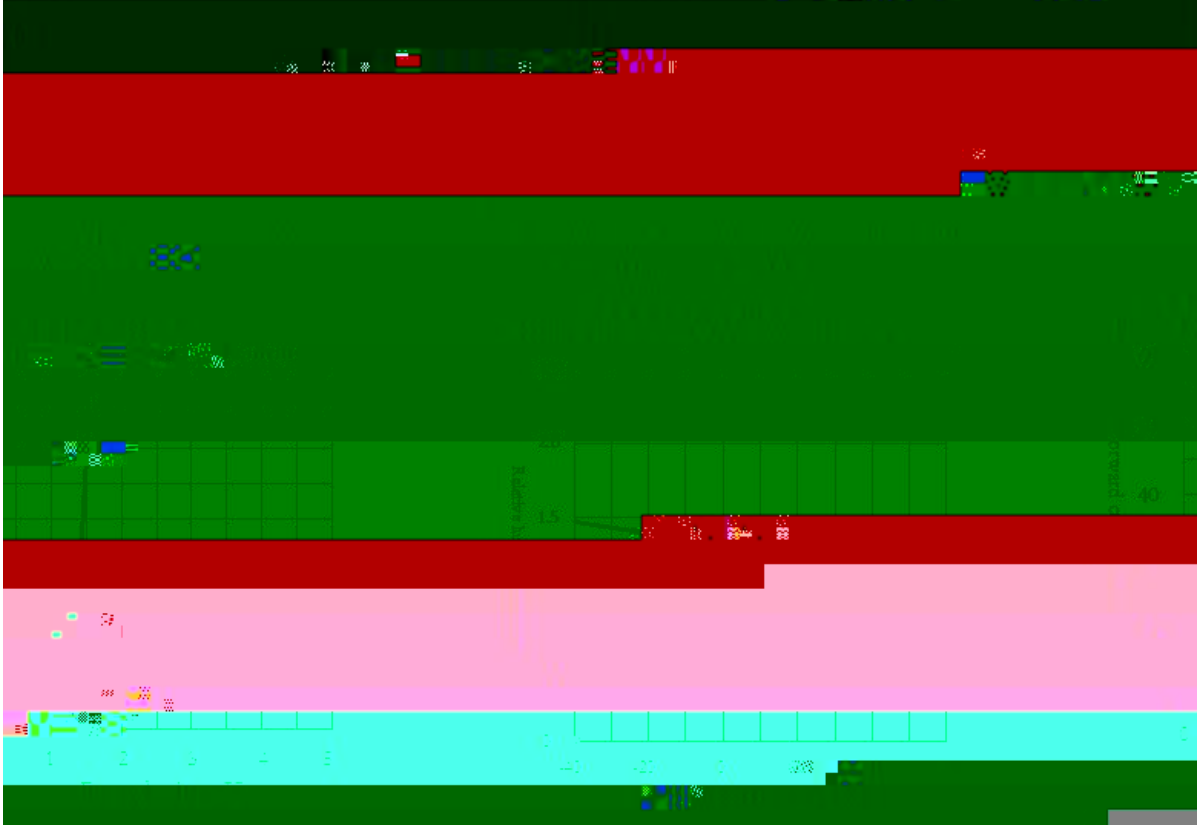


Fig.5 Relative Radiant Intensity vs. Forward Current

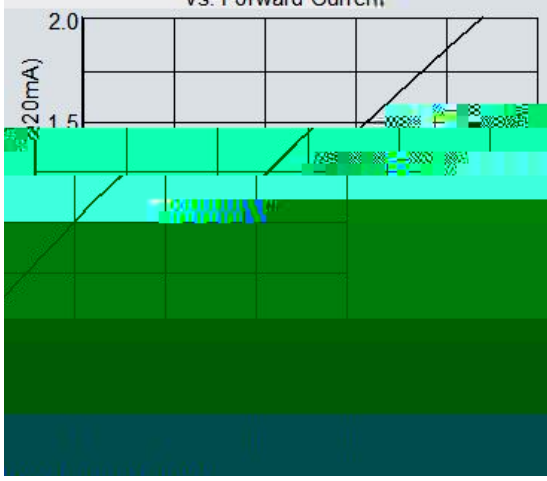
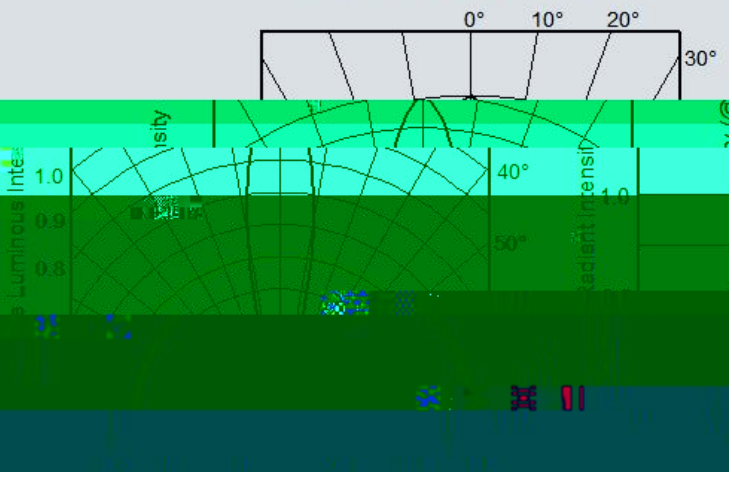


Fig.6 Radiation diagram(Ta=25°C)



包装

Packaging

焊接指导

使用注意事项（1）

Precautions (1)

1. 贮存：

Storage

Moisture proof and anti-electrostatic package with moisture absorbent material is used, to keep moisture to a minimum.

30 60%RH

Before opening the package, the product should be kept at 30 or less and humidity less than 60% RH, and be used within a year.

30 40%RH 168 7

30 60%RH

After opening the package, the product should be stored at 30 or less and humidity less than 40%RH, and be soldered within 168 hours (7 days). It is recommended that the product be operated at the workshop condition of 30 or less and humidity less than 60%RH.

LED

60 5 24 5

If the moisture absorbent material has faded away or the LED's have exceeded the storage time, baking treatment should be performed based on the following

使用注意事项（2）

Precautions (2)

、设计建议

Design Consideration

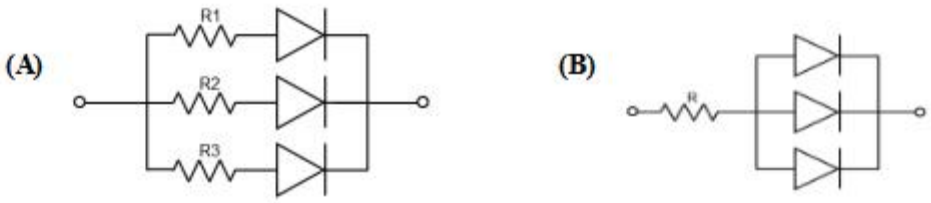
LED

A LED B

LED V_F LED

In designing a circuit, the current through each LED must not exceed the absolute maximum rating specified for each LED. In the meanwhile, resistors for protection should be applied, otherwise slight voltage shift will cause big current change, burn out may happen.

It is recommended to use Circuit A which regulates the current flowing through each LED rather than Circuit B. When driving LEDs with a constant voltage in Circuit B, the current through the LEDs may vary due to the variation in Forward Voltage (V_F) of the LEDs. In the worst case, some LED may be subjected to stresses in excess of the Absolute Maximum Rating.



LED LED

Thermal