XL-PD438C 技术数据表 **Technical Data Sheet**

characteristic）：

L/W/H :6.6*4.8*3.8 mm

Outline Dimensions (L / w / h): 6.6x 4.8 x 3.8mm

* : /

Luminous color and colloid: infrared receiver tube transparent colloid

ROHS

Environmental protection products Complied With ROHS Directive

Moisture sensitivity level MSL : 3 levels

EIA

EIA standard packaging

*

High energy efficiency, fast startup

应用领域（product application）：

Infrared remote controller

Camera monitoring head

Industrial control: counters, thermal

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电性参数

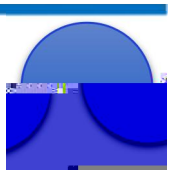
Electrical Characteristics

Parameter	Symbol	Maximum rating	Unit
Power consumption	Pd	150	mW
Reverse Voltage	VR		

Initial Electrical Optical Characteristics Ta=25

Parameter	Symbol	Min	Representative	Max	Unit	Condition
Open-Circuit Voltage	VOC	/	0.35	/	V	λ_P=940nm Ee=5mW/cm2
Short-Circuit Current	Isc	/	18	/	μA	λ_P=940nm Ee=1mW/cm2
Reverse Light Currente	IL	15	25	/	μA	λ_P=940nm V_R=5V Ee=1mW/cm2
Reverse Dark Current	ID	/	5	30	nA	V_R=10V Ee=0mW/cm2
Rise time	Tr	/	50	/	uS	V_R=10V RL=1000Ω
Fall time	Tf	/	50	/		
Reverse Breakdown Voltage	BVR	25	170	/	V	Ee=0mW/cm2 IR=100μA
Total Capacitance	Ct	/	6	/	pF	Ee=0mW/cm2 V_R=5V f=1MHz
Rang of Spectral Bandwidth	λ0.5	400	/	1100	nm	/
Wavelength of Peak Sensitivity	λP	/	940	/	nm	/

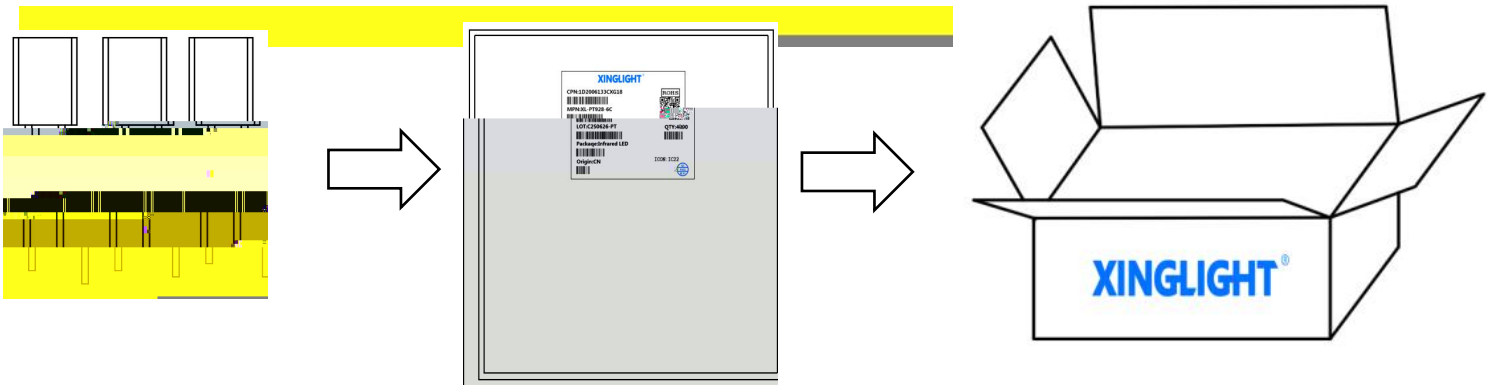
Bin	Symbol	Condition	Min.	Max.	Unit
BIN1	IL	Ee=1mW/cm^2 V_{CE}=5V	10.2	16.5	mA
BIN2			13.5	22.0	mA
BIN3			18.0	27.5	mA
BIN4			22.5	33	mA



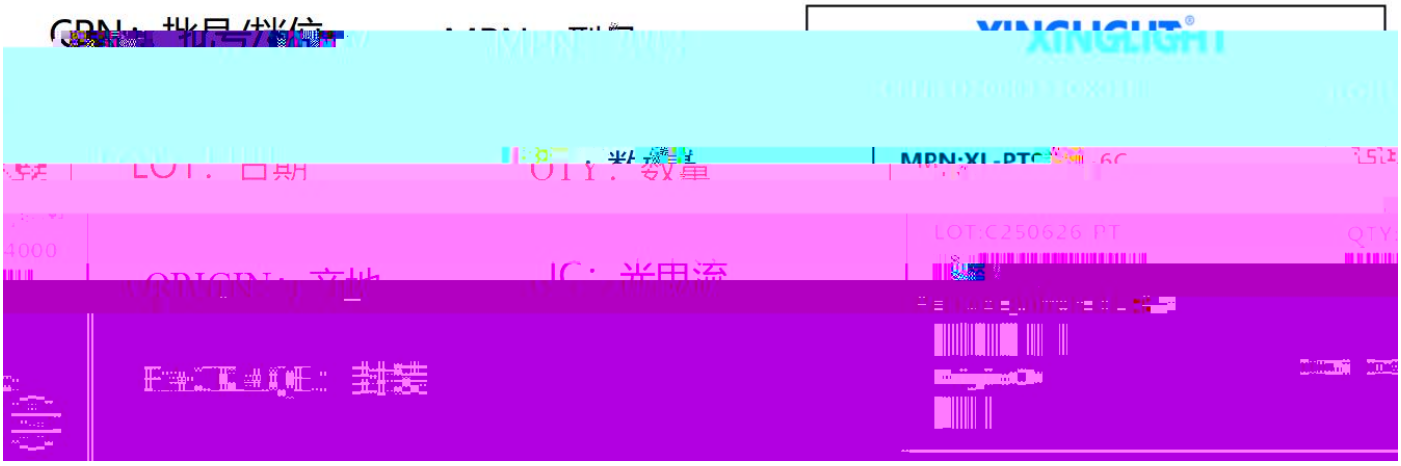
包装

Packaging

Moisture Proof and Antti-Electrostic Foil Bag

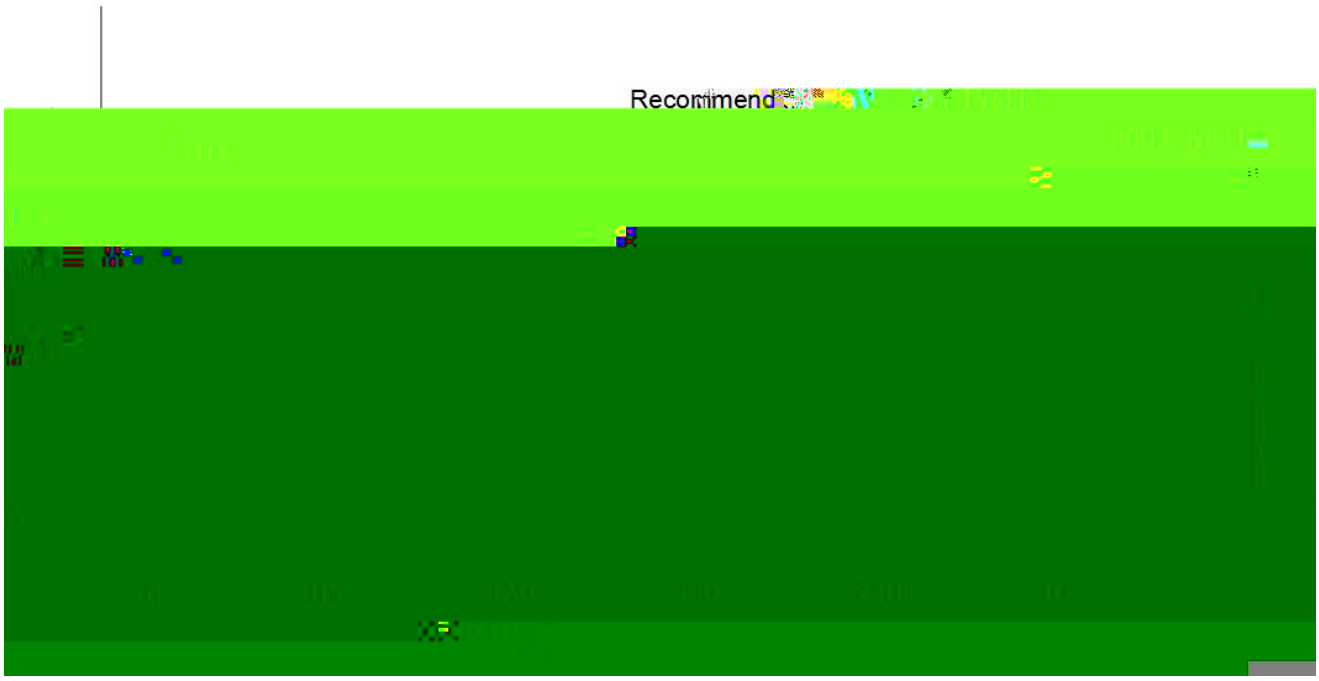


Label Expantion



焊接指导

The wave peak welding curve is recommended :



Note

1

Lead solder temperature profile

2

Suggest one wave soldering frequency

3 LED

When soldering, do not put stress on the LED during heating

4

After soldering, do not warp the circuit board

5 240 /6S

The recommended maximum welding temperature for the product is 240 /6s

使用注意事项（1）

Soldering Iron

300 3 25W

Each terminal is to go to the tip of soldering iron temperature less than 300 for 3 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.

手工补焊 Repairing

LED ( )

LED

Repair should not be done after the LED have been soldered. When repairing is unavoidable, a double-head soldering iron should be used (as below figure). It should be confirmed beforehand whether the characteristics of the LED will or will not be damaged by repairing.

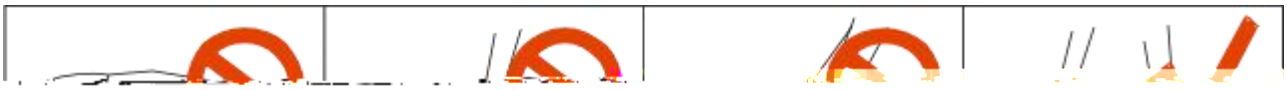
使用注意事项（2）

使用注意事项（3）

其他事项：

Others

When handling the product, touching the encapsulant with bare hands will not only contaminate its surface, but also affect on its optical characteristics. Excessive force to the encapsulant might result in catastrophic failure of the LEDs due to die breakage or wire deformation. For this reason, please do not put excessive stress on LEDs, especially when the LEDs are heated such as during Reflow Soldering.



LED

The epoxy resin of encapsulant is fragile, so please avoid scratch or friction over the epoxy resin surface. While handling the product with tweezers, do not hold by the epoxy resin, be careful.