

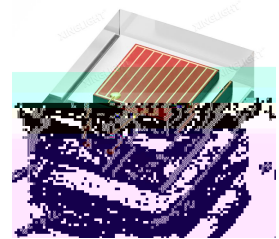
XL-C2016P2S10-62R

Technical Data Sheet

2016

Characteristics

- L/W/H :2.0*1.6*0.9mm
Outline Dimensions L/W/H :2.0*1.6*0.9mm
- : /
Luminous color and colloid:red light/water colloid
- Cool beam safe to the touch
- ROHS
Environmental protection products Complied With ROHS Directive
- MSL :3
Moisture sensitivity level MSL : 3 levels
- Low voltage DC operated



he model diagram is
for reference only

Product application

- /
Mobile camera flash (camera flash / strobe for mobile devices)
- Automotive lighting
- Electric motorcycle lighting
- Exterior and interior lighting applications
- Industrial and Commercial Lighting



Electrical Characteristics

1. Thermal Characteristics ()

Parameter	Symbol	Min.	Max.	Unit
Max Power Dissipation	PD	3		W
Max Continuous Forward Current	IF	1000		mA
Peak Forward Current	IFP	1100		mA
Max Reverse Voltage	VR	5		V
Operating Temperature Range	TOPR	-40	+120 °C	
Storage Temperature Range	TSTR	-40	+100 °C	
Welding conditions	TSOL	260	≤ 6S	/

* $\leq 0.1\text{ms}$ $\leq 1/10$ Note: Pulse width $\leq 0.1\text{ms}$, Duty $\leq 1/10$

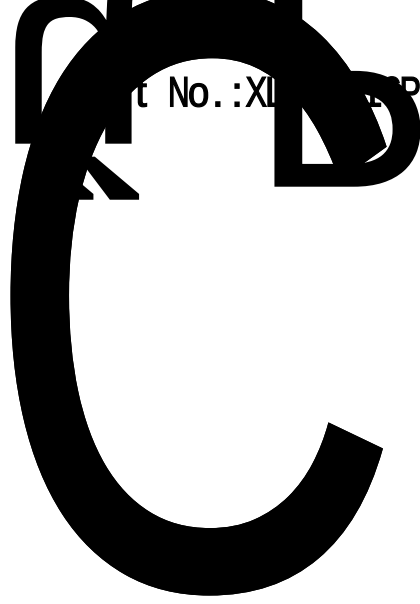
2. Optical Characteristics ()

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test conditions
Luminous flux	Φ	6	-	1	LM	IF=700mA
Wavelength	λ_d	615		635	nm	IF=700mA
Forward Voltage	VF	1.8	-	2.4	V	IF=700mA
Viewing Angle	$2\theta_{1/2}$	-	120	-	Deg	IF=700mA
Reverse Current	IR	-	-	10	μA	VR=5V

* $\pm 10\%$ Note: the light intensity error is 10%;
 $\pm 0.1\text{V}$ The pressure drop error is $\pm 0.1\text{V}$;
 $\pm 1\text{nm}$ wavelength error is $\pm 1\text{nm}$.



INGLIGHT



Product No. : XL-2S10-62R



Reliability Test Items And Conditions

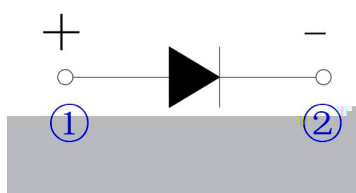
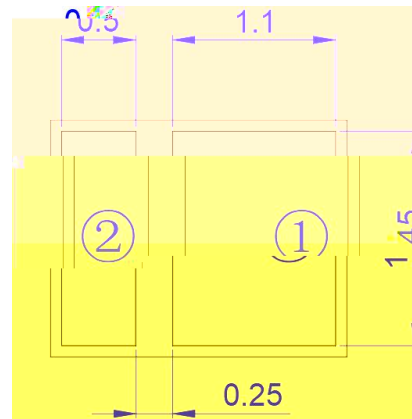
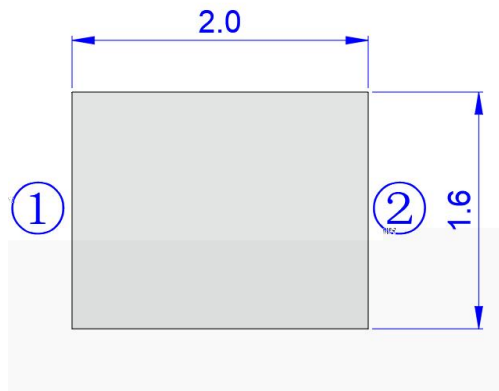
1. Test items and criteria

Test Parameter	Reference Criterion	Test Condition	Time	Quantity	/ Ac/Re
Resistance to Soldering Heat	JESD22-B106	Temp:260 max T=6sec	3 times	22Pcs	0/1
thermocycling	JESD22-A104	120 ± 5 30min. -40 ± 5 30min.	100 Cycles	22Pcs	0/1
High-temperature storage	JESD22-A103	Temp:125 ± 5	1000Hrs	22Pcs	0/1
Low temperature storage	JESD22-A119	Temp:-40 ± 5	1000Hrs	22Pcs	0/1
Working life	JESD22-A100	Ta=25 ± 5 IF=700mA	1000Hrs	22Pcs	0/1
High temperature	JESD22-A101	85 ± 5 /85 RH	1000Hrs	22Pcs	0/1

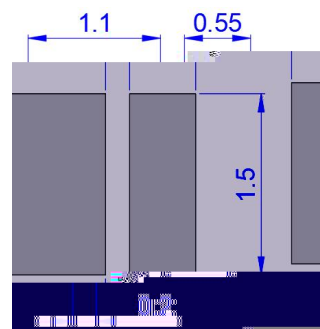
2. Criteria For Judging Damage

Parameter	Symbol	Test Condition	Judgement standard
			mo

Outline Dimensions



Polarity

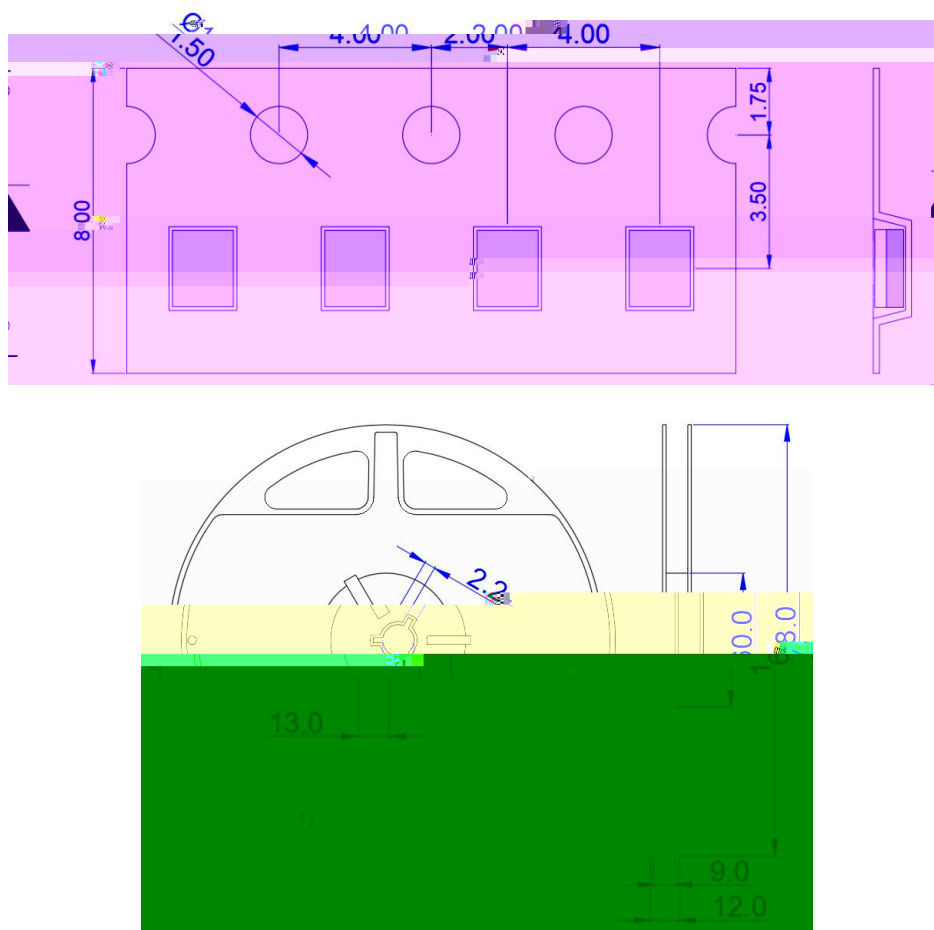


Recommendable Soldering Pattern

- * 1. mm
- Note All dimensions are in millimeters.
2. $\pm 0.25\text{mm}$
- Tolerance is $\pm 0.25\text{mm}$ unless otherwise noted

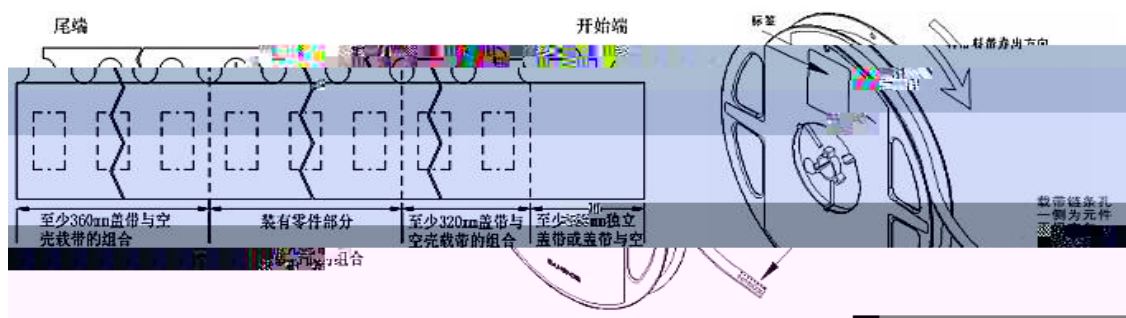
Packaging

1. Belt and disk dimensions



- * 1. mm
- Note All dimensions are in millimeters mm .
2. $\pm 0.10\text{mm}$
- Tolerance is $\pm 0.10\text{mm}$ unless otherwise noted

2. Disk and carrier belt direction of roll and hole dimensions





Precautions

1. Storage

Moisture proof and anti-electrostatic packaging with moisture resistant material to keep moisture to a minimum.

30 60%RH

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

30 40%RH 168

30 60%RH

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

