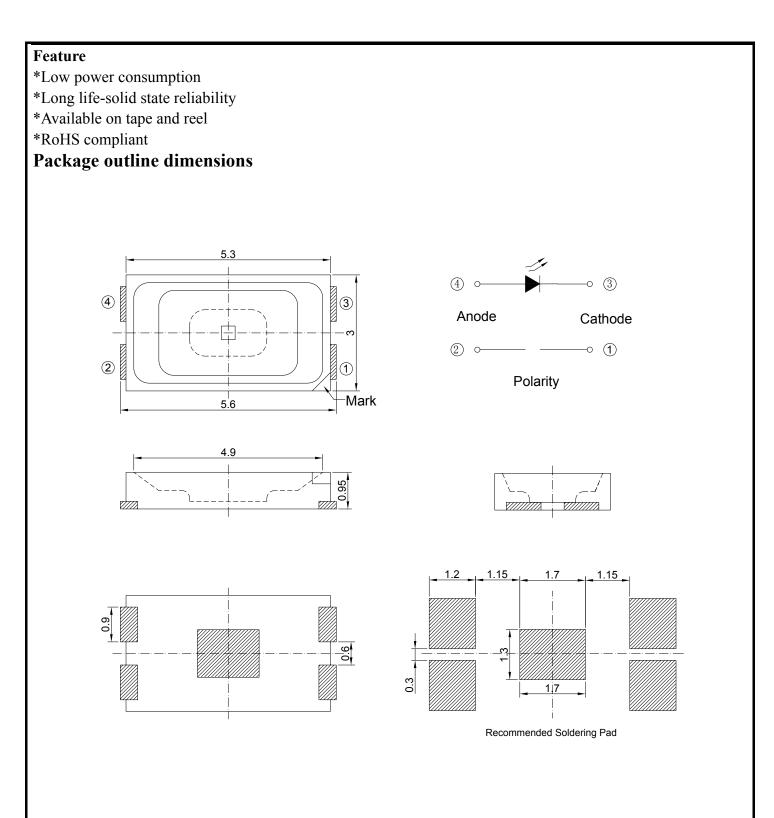
Sample Approval Sheet

(Product type):SMD					
(Product name):5630 Blue	(Product name):5630 Blue				
(Part No.):					
(Sample No.):					
(Acknowledgement Numbers):					
(Signatures)					
(Approved) (Checked) (Drawn)					

(Customer)				
(Corporation):				
(Material No.):				
(Part No.):				
(Customer Signatures)				



Note:

1.All dimensions are in millimeters(mm);

2.X.X is +/-0.1mm,X.XX is +/- 0.05mm unless otherwise noted;

3. The device has a single mounting surface, The device must be mounted according to the specifications.

Electrical characteristics data sheet

Selection Guide

Part No.	Emitted Color	Resin color	Viewing Angle 2θ _{1/2}
	Blue	Clear	120°

Absolute Maximum Ratings at Ta=25℃

Parameter	Symbol	Value	Unit
Power dissipation	Pd	500	mW
DC Forward Current	If	150	mA
Peak Forward Current ⁽¹⁾	Ifp	700	mA
Reverse Voltage	Vr	5	V
Electro-Static-Discharge ⁽²⁾ (HBM)	ESD	1000	V
Operating Temperature	Topr	-25to+85	C
Storage Temperature	Tstg	-40to+100	Ĉ
Lead Solder Temperature	Tsol	260 for 5sec	Ĉ

Notes:

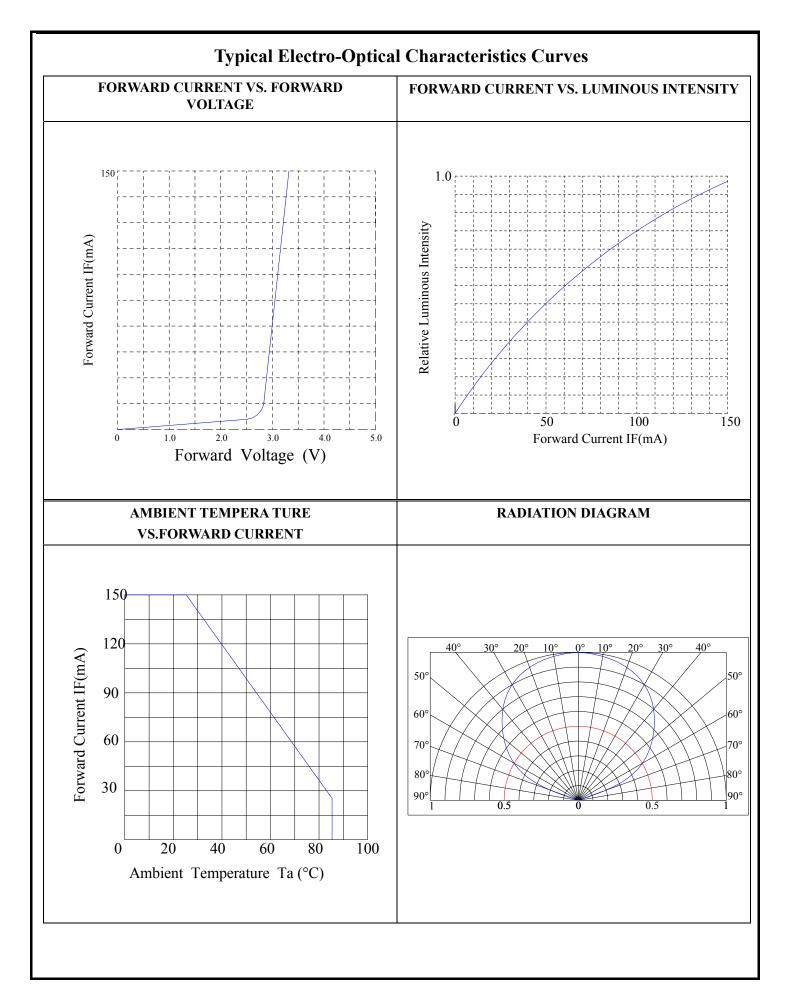
1.1/10 duty cycle,0.1ms pulse width

2. The products are sensitive to static electricity and must be carefully taken when handling products.

Electrical/Optical Characteristics Ta=25°C	Symbol	Condition	Value		Unit	
Parameter			Min.	Тур.	Max.	Unit
Forward voltage	Vf	If=150mA	2.8	3.0	3.4	V
Luminous flux	Φ	If=150mA	5	5.5		lm
Dominant wavelength	λd	If=150mA	450	455	460	nm
Peak wavelength	λp	If=150mA		450		nm
Reverse current	Ir	Vr=5V			10	μA

Notes:

- 1. Forward voltage:±0.1V.
- 2. Wavelength: ±1.5nm.
- 3. Luminous Flux: ±10%.



Bin Range of Technical Data Sheet

	Voltage code	e code		Intensity code	
	Forward voltage			Luminous Flux	
group	Min (v)	max (v)	group	Min (lm)	max (lm)
J	2.8	3.0	2	5	6
K	3.0	3.2	3	6	7
L	3.2	3.4	4	7	8

Color Bin Limits

Color code(IF=150mA, Ta=25°C)				
group	Peak wavelength (nm)			
group	min max			
B1-1	450	452.5		
B1-2	452.5	455		
B2-1	455	457.5		
B2-2	457.5	460		

Notes:

- 1. Tolerance of forward voltage for each Bin limit is $\pm 0.1v$.
- 2. Tolerance of luminous intensity for each Bin limit is $\pm 10\%$.
- 3 Tolerance of X/Y for each Bin limit is ± 0.005 .

Reliability Test Items and Conditions

1. Test items and result

Test Item	Ref. Standard	ef. Standard Test Condition		Number of Damaged
Resistance to Soldering Heat	JESD22-B106	Tsld=260°C,10sec	2 times	0/100
Temperature Cycle	JESD22-A104	-40°C 30min ↓↑ 5min 100°C 30min	100 cycle	0/100
Thermal Shock	JESD22-A106	-40℃ 15min ↑↓ 100℃ 15min	100 cycle	0/100
Power temperature Cycling	JESD22-A105	On 5min -40°C>15min ↑↓↑↓<15min Off 5min 100°C>15min	100 cycle	0/100
High temperature Storage	JESD22-A103	Ta=100°C	1000 hrs	0/100
Low temperature Storage	JESD22-A119	Ta=-40℃	1000 hrs	0/100
Lift Test	JESD22-A108	Ta=25℃ IF=150mA	1000 hrs	0/20
High Humidity Heat Lift Test	JESD22-A101	60℃ RH=90% IF=150mA	1000 hrs	0/20

2、Criteria for judging damage

Item	Symbol	Test Conditions	Criteria for Judgment	
			Min	Max
Forward voltage	VF	IF=150mA		U.S.L*)×1.1
Reverse current	IR	VR=5V		U.S.L*)×2.0
Luminous intensity	IV	IF=150mA	L.S.L**)×0.7	

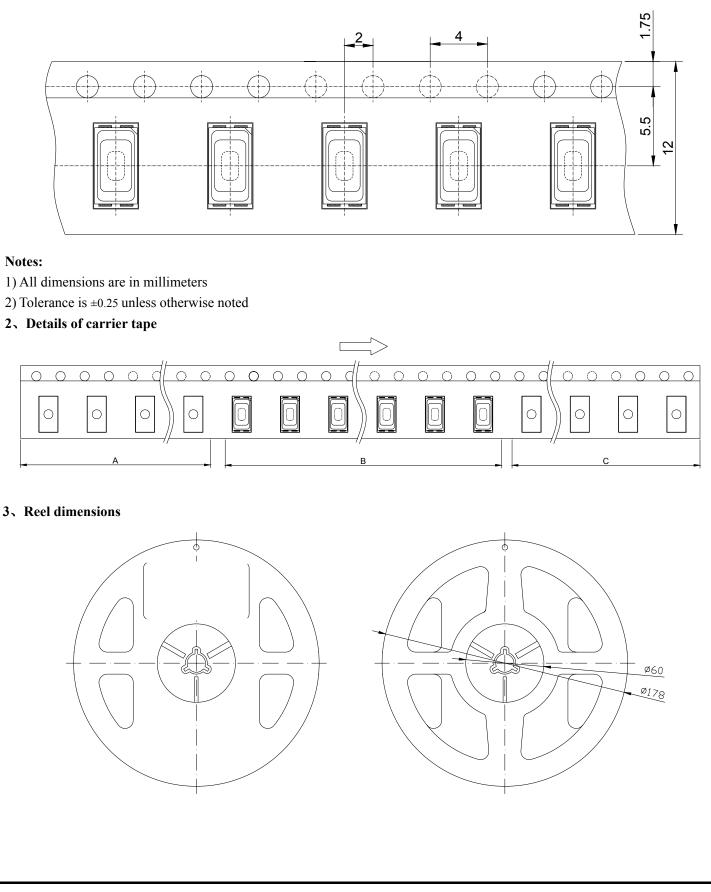
Notes:

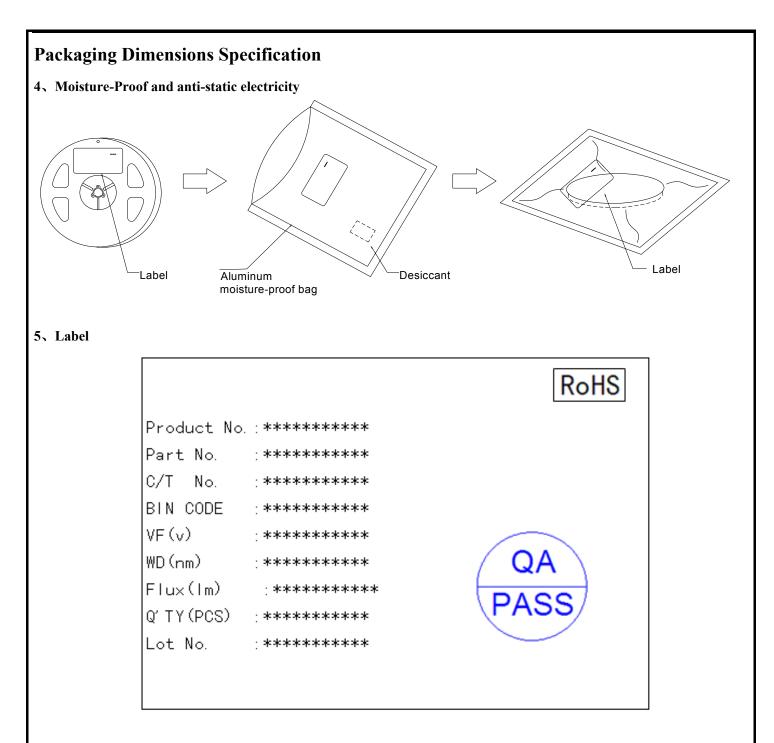
U.S.L.: Upper Standard Level

L.S.L.: Lower Standard Level

Packaging Dimensions Specification

1、 Carrier tape dimensions





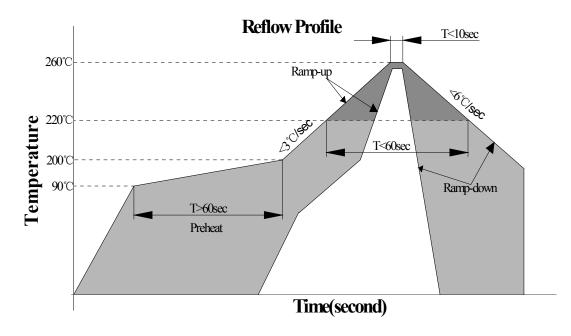
Label Explanation:

VF: Forward Vol WD: Wavelength Flux: Luminous Flux

Precautions

1. Requirements for application and reflow soldering

Use the recommended curve in the under figure of Pb-free reflow soldering.



☆Notes for reflow soldering:

1)No more than twice for reflow soldering.

2)To ensure the quality of our LEDs ,please do not put pressure on the LEDs.

3)Please choose the right nozzle to avoid the damage to products due to the pressure.

4)Please put on the antistatic hand loop during the use. The worktable should be with antistatic finish. The equipments must be contacted with ground

☆Handwork soldering

1) During the soldering, the electronic soldering iron must be kept under the temperature of 350°C and the soldering time must not be beyond 3 seconds. No touch between the electronic soldering iron and colloid.

2)Handwork soldering is only allowed once. We won't take responsibility for more than that.

3) Avoid using sharp objects to compress products Colloidal Part directly.

4)Please put on the antistatic hand loop during the use. The worktable should be with antistatic finish. The equipments must be contacted with ground.

2、Storage

☆Moisture proof and anti-electrostatic package with moisture absorbent material is used to keep moisture to a minimum. Before opening the package, the product should be kept at 30°C or less and humidity less than 60%RH ,and be used in six months.

☆After opening the package, the product should be stored at 30°C or less and humidity less than 10%RH,and be soldered within 24 hours. It is recommended that the product be operated at the workshop condition of 30°C or less and humidity less than 60%RH.

☆ If the moisture absorbent material has fade away or the LEDs have exceeded the storage time, baking treatment should be performed based on the following condition(60±5) °C for12 hour。

3、Static electricity

Static electricity or surge voltage damages the LEDs .Damaged LEDs will show some unusual characteristic such as the forward voltage comes lower, or the LEDs do not light at the low current. even not light.

All devices, equipment and machinery must be properly grounded. At the same time ,it is recommended that wrist bands or anti-electrostatic gloves, anti-electrostatic containers be used when dealing with the LEDs .

4、Vulcanization

☆LED curing is due to sulfur being in bracket and the +1 price of silver in the chemical reaction generated Ag2S in the process. It will lead to the capacity of reflecting of silver layer reducing, light color temperature drift and serious decline, seriously affecting the performance of the product. So we should take corresponding measures to avoiding vulcanization, Such as to avoid using Sulphur volatile substances and keeping away from high Sulphur content of the material.

5 Safety advice for human eyes

☆ Viewing direct to the light emitting center of the LEDs, especially those of great luminous Intensity will cause great hazard to human eyes .Please be careful.

6、 Design consideration

☆ In designing a circuit about LED, 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.