Sample Approval Sheet

(Product type): SMD						
(Product name): 0805 White						
(Part No.):						
(Sample No.):						
(Acknowledgement Numbers):						
Signatures						
(Approved)	(Checked) (Drawn)					

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

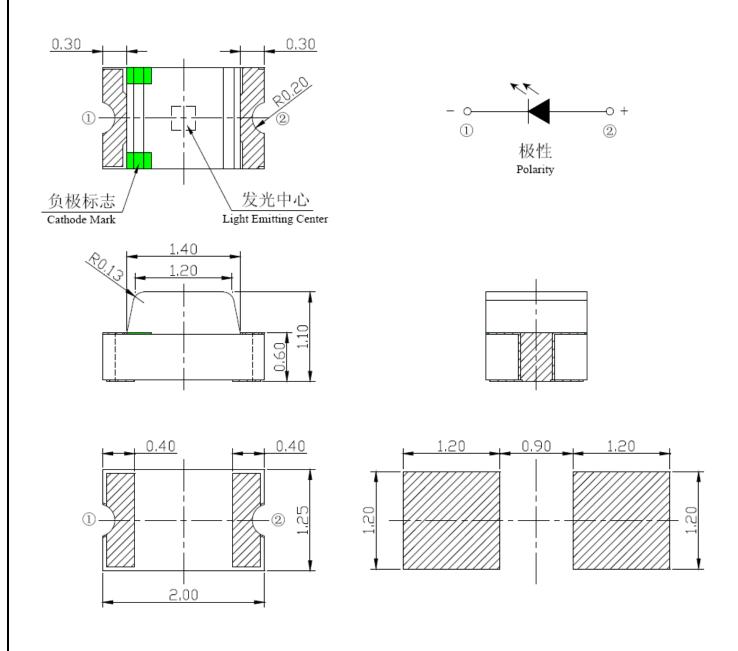
Feature

*Low power consumption

- *Long life-solid state reliability
- *Available on tape and reel

*RoHS compliant

Package outline dimensions



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.

Selection Guide						
Part No.	Emitted (Emitted Color Resin co WHITE YELLO		in color	Viewing Angle 2θ _{1/2} 120 °	
	WHIT			LLOW		
Absolute Maximum Ratings at Ta= Parameter	25°C	Sym	bol	Value	Unit	
Power dissipation		Pd		120	mW	
DC Forward Current		If		30	mA	
Peak Forward Current ⁽¹⁾		Ifp		100	mA	
Reverse Voltage		Vr		5	V	
Electro-Static-Discharge ⁽²⁾ (HBM)		ESD		1000	V	
Operating Temperature		Тој	pr	-25to+85	°C	
Operating Temperature		•				
Operating Temperature Storage Temperature		Tst	tg	-40to+100	Ĉ	

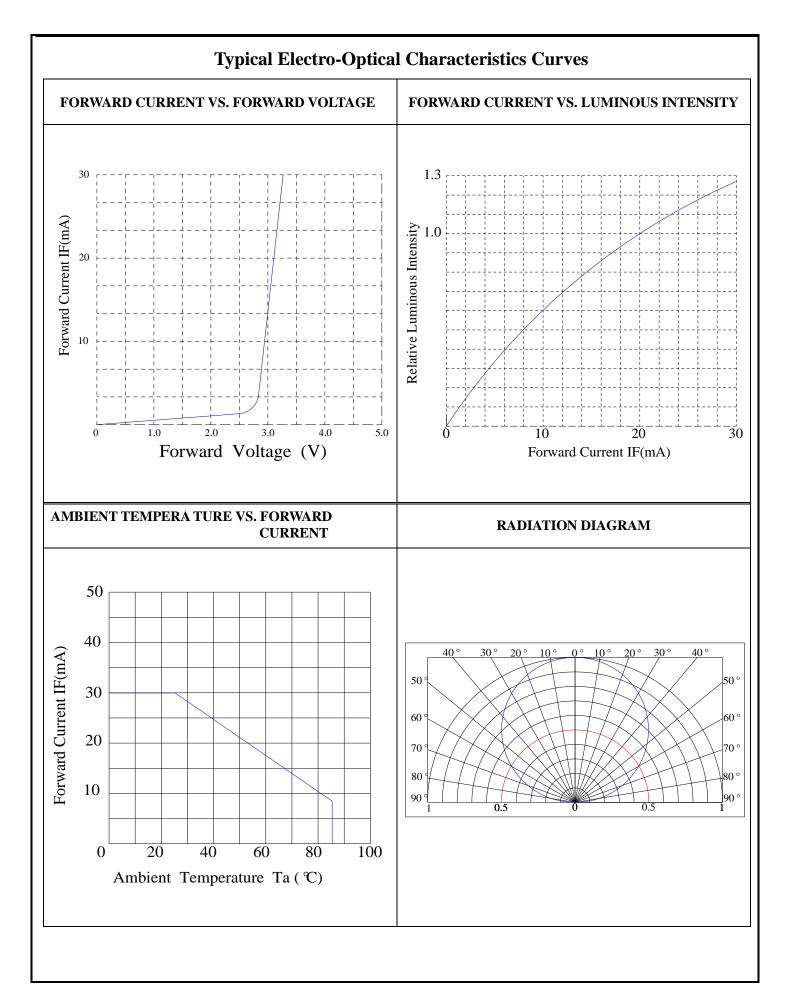
Notes:

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

Parameter	Symbol	Condition	Value			Unit
			Min.	Тур.	Max.	Umt
Forward voltage	Vf	If=5mA	2.6	3.2	3.6	V
Luminous intensity	Iv	If=5mA	175	200	275	mcd
Chromaticity coordinate	X	If=5mA		0.256		
	Y	If=5mA		0.231		
Reverse current	Ir	Vr=5V			50	μA



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Reliability Test Items and Conditions

1. Test items and result

Test Item	Ref. Standard	. 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=20mA	1000 hrs	0/20
High Humidity Heat Lift Test	JESD22-A101	60℃ RH=90% IF=20mA	1000 hrs	0/20

2. Criteria for judging damage

Item	Symbol	Test Conditions	Criteria for	Judgment
	_		Min	Max
Forward voltage	VF	IF=20mA		U.S.L*)×1.1
Reverse current	IR	VR=5V		U.S.L*)×2.0
Luminous intensity	IV	IF=20mA	L.S.L**)×0.7	

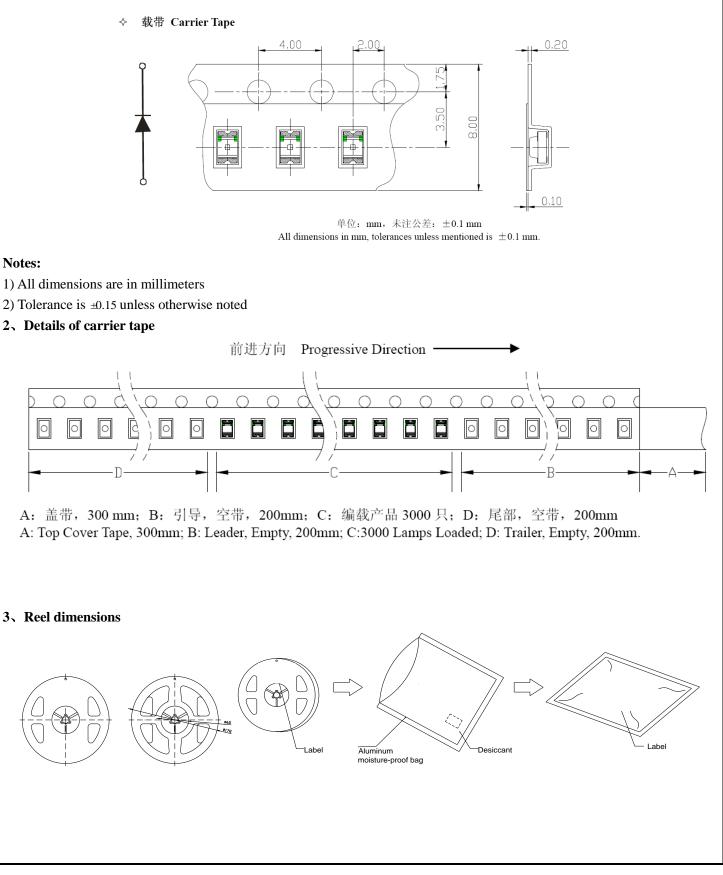
Notes:

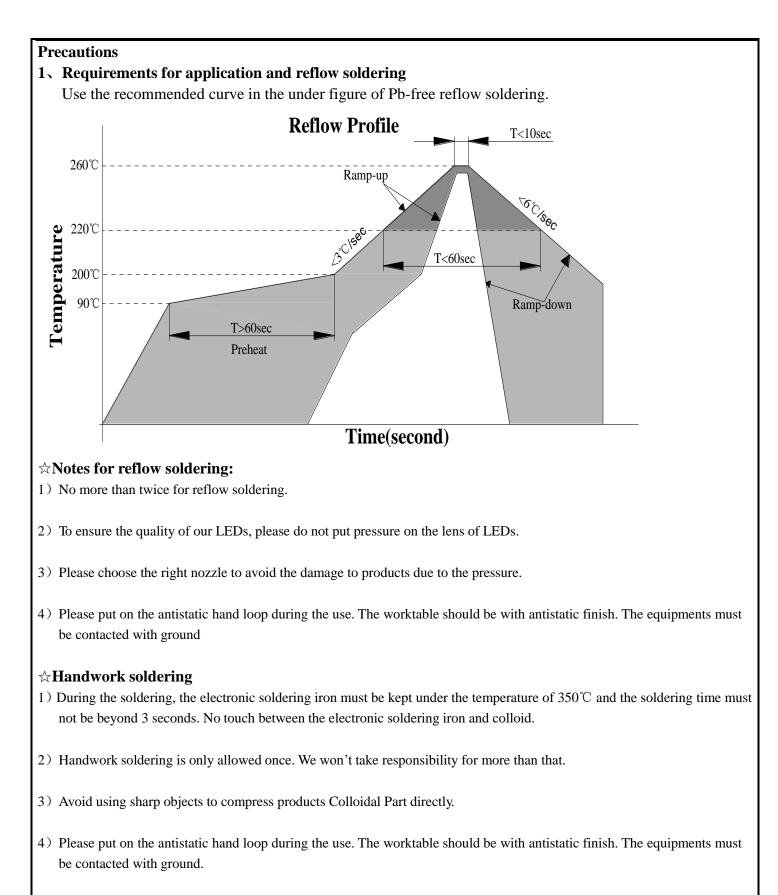
U.S.L.: Upper Standard Level

L.S.L.: Lower Standard Level

Packaging Dimensions Specification

1、Carrier tape dimensions





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.
- \gtrsim 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(75±5) °C for 24 hour_o

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.