

客户名称: _____
 客户品号: _____
 公司品号: CM2835NWR2-PCT(0.5W 正白)
 送样日期: 2015.10.05

客户审核		长方审核		
核准人	确认人	核准人	确认人	制作人
				彭晓军
<input type="checkbox"/> 接受 <input type="checkbox"/> 不接受				

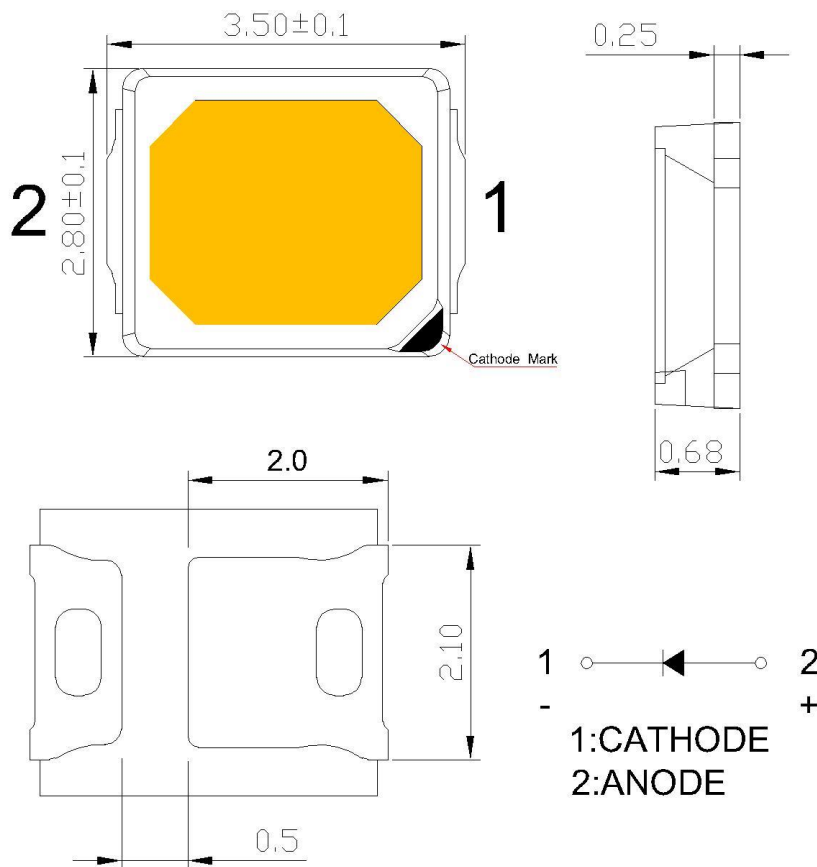
◆ Features

- ◆ Outline dimension :2.8mm*3.5mm*0.68mm
- ◆ SMD Top View LED (White Color)
- ◆ RoHS compliant lead-free soldering compatible
- ◆ Soldering methods :SMT assembly available
- ◆ RoHS compliant
- ◆ Package:15000pcs/reel

◆ Application

- ◆ Tubular Light application
- ◆ General use

◆ Outline Dimension



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE DEVICES



Notes:

[1] : All dimensions are in millimeters (inches);

[2]: Tolerances are ± 0.3 mm (0.012inch) unless otherwise noted.

◆ Absolute maximum ratings @ $I_F=150\text{mA}, T_a=25^\circ\text{C}$

Item	Symbol	Absolute Maximum Rating	unit
Forward Current	I_F	150	mA
Pulse Forward Current	I_{FP}	180	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	500	MW
Operating Temperature	T_{opr}	-30~+85	$^\circ\text{C}$
Storage Temperature	T_{stg}	-30~+100	$^\circ\text{C}$
Junction Temperature	T_J	115	$^\circ\text{C}$
Electrostatic Discharge	ESD	2000(HBM)	V

◆ Electrical-Optical characteristics @ $T_a=25^\circ\text{C}$

Item	Symbol	Test Condition	Min	Typ	Max	Unit
Forward voltage ^[1]	VF	$I_F=150\text{mA}$	2.7	-	3.6	V
Luminous Flux	Φ_v	$I_F=150\text{mA}$	50	-	60	LM
View Angle	2 θ 1/2	$I_F=150\text{mA}$	-	120	-	deg
Reverse Current	IR	$V_R=5\text{V}$	-	-	10	μA
Color Rendering Index	CCT	$I_F=150\text{mA}$	5000	-	8000	K
Color Rendering Index	CRI	$I_F=150\text{mA}$	-	80	-	Ra
CIE Chromaticity	X	$I_F=150\text{mA}$	详见分光标准			
	Y					

Notes:

[1] Forward voltage(VF) $\pm 0.1\text{V}$;

[2] Luminous Flux(Φ_v) $\pm 10\%$;

[3] Luminous Intensity(CCT) $\pm 10\%$, (X, Y ± 0.01);

[4] Color Rendering Index (CRI) ± 3 ;

[5] View Angle (2 θ 1/2) ± 5 ;

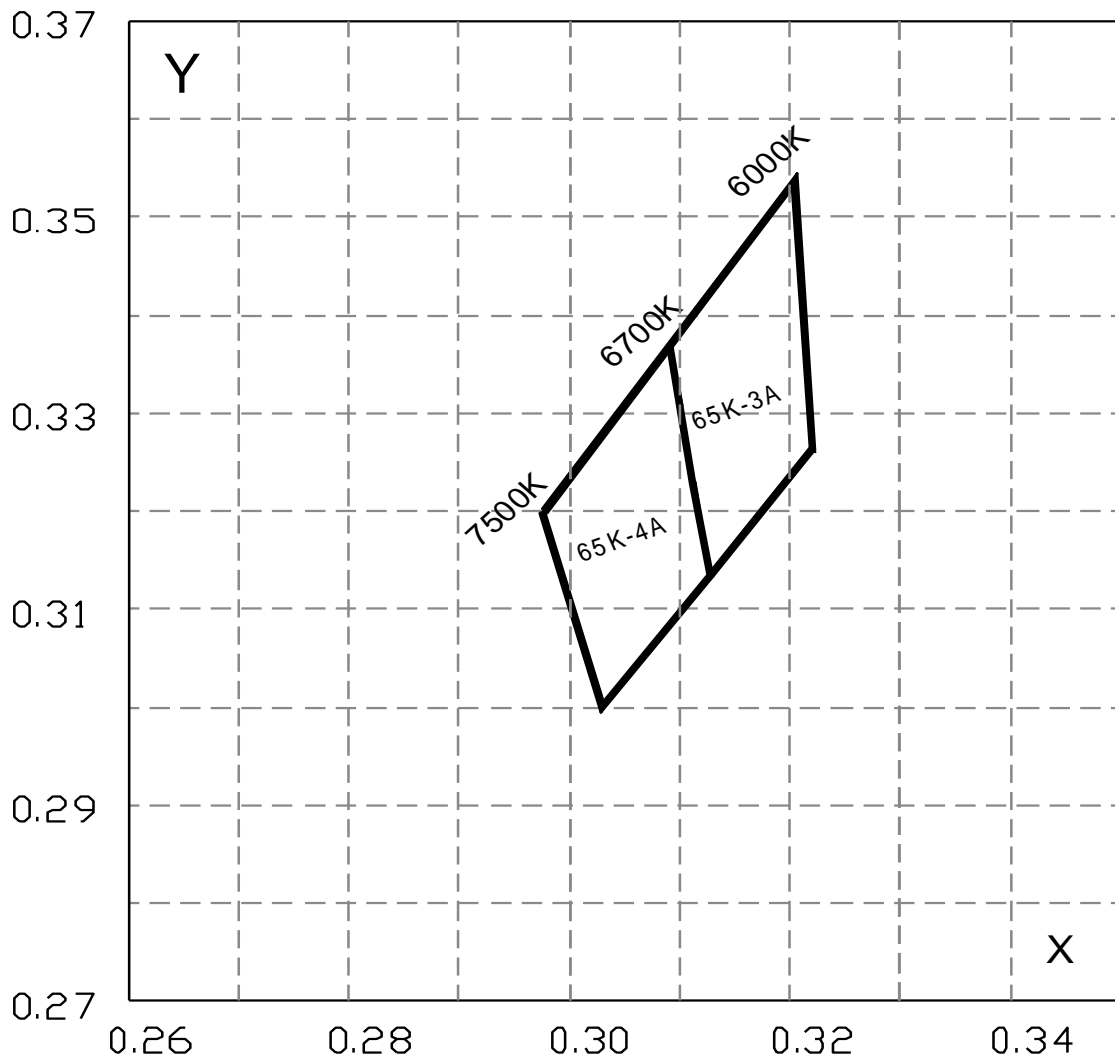
◆ Luminous Intensity Rank ϕ_v @IF=150mA, Ta=25°C (Unit:lm)

BIN	Min	Max	BIN	Min	Max
A	45	50	C	55	60
B	50	55			

◆ Forward Voltage Rank V_F @IF=150mA, Ta=25°C (Unit:V)

Bin	Min	Max	Bin	Min	Max
V1	2.7	3.0	V3	3.3	3.6
V2	3.0	3.3			

◆ Color Rank @IF=150mA ,Ta=25°C (Unit:X/Y)



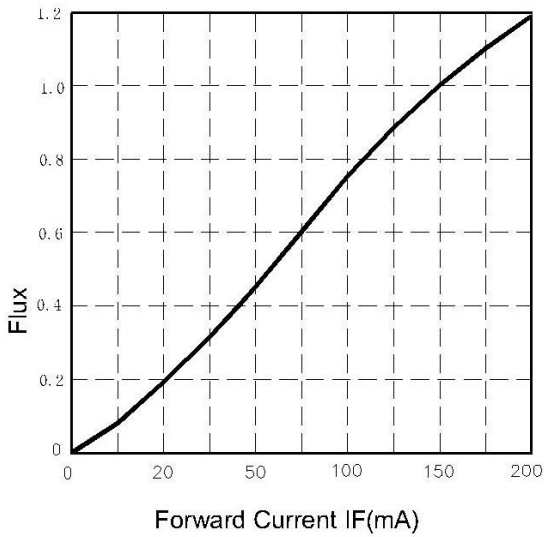
色区名	坐标					相对色温
	X	Y	X	Y	X	
65K-3A	X	0.3091	0.3205	0.3221	0.3127	/
	Y	0.3368	0.3537	0.3264	0.3134	
65K- 4A	X	0.2976	0.3091	0.3127	0.303	/
	Y	0.3199	0.3368	0.3134	0.30	

Notes:

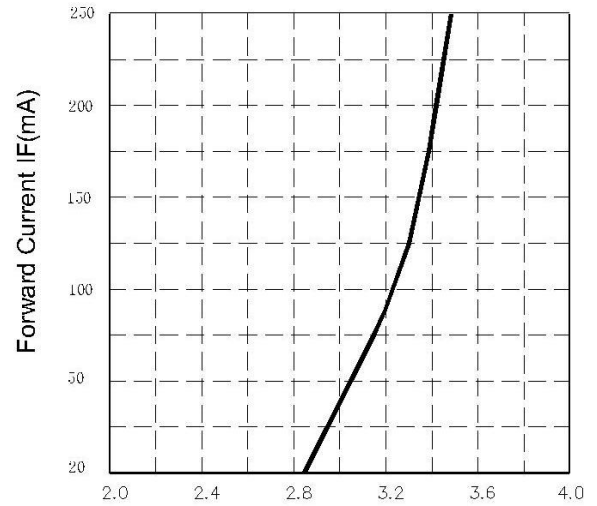
[1] Color Coordinates Measurement allowance is ± 0.01 ;

◆ Typical Electro-optical Characteristics Curves @Ta=25°C

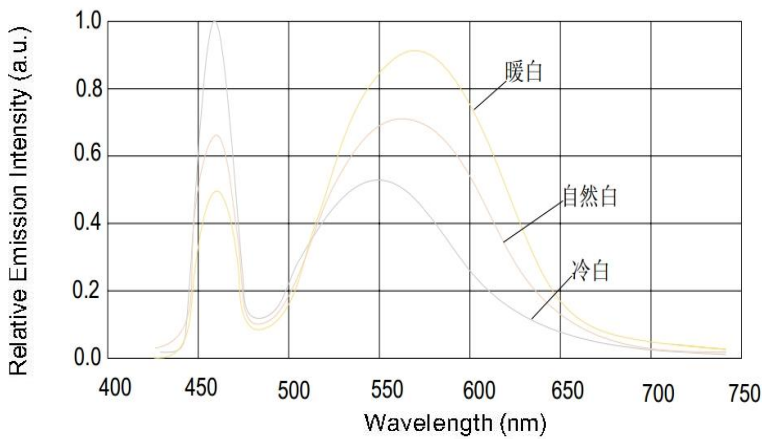
Flux vs. Forward Current



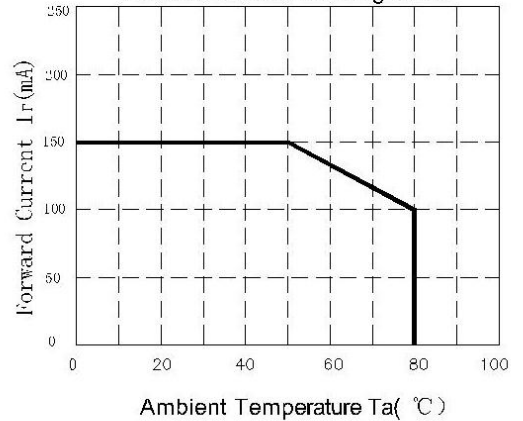
Forward Voltage VS Forward Current



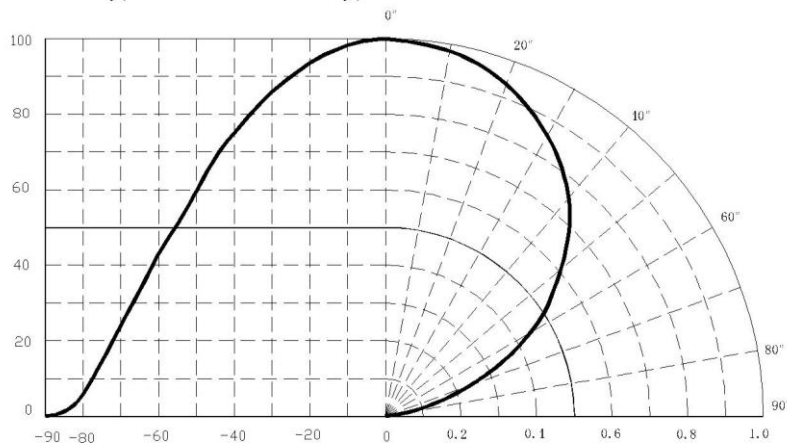
Relative Emission Intensity VS Wavelength



Forward Current Derating Curve



Typical Lambertian Type Radiation F_{all} (m)



◆Reliability

◆TEST ITEMS AND RESULTS

Test Item	Rdf.Standard	Test Conditions	Note	Number of Damaged
High Temperature storage	JESD22-A103	Temp:100°C ± 5°C	1000 hrs	0/22
Low Temperatue Storage	JESD22-A119	Temp:-40°C ± 5°C	1000 hrs	0/22
Temperature Cycle	JESD22-A104	100°C ± 5°C 30min ↓ ↑ 5min -40°C ± 5°C 30min	100 cycle	0/22
Reflow	JESD22-B106	Temp:260°C max T=10sec	3Times	0/22
Life Test	JESD22-A108	Ta=25°C ± 5°C IF=150MA	1000 hrs	0/22
High Temperature High Humidity Life Test	JESD22-A101	85°C ± 5°C / 85%RH I _F = 100mA	1000 hrs	0/22

◆CRITERIA FOR JUDGING THE DAMAGE

Item	Symbol	Test Conditions	Criteria for Judgement	
			Min.	Max.
Forward Voltage	VF	IF=150mA	—	U.S.L*) × 1.1
Luminous Intensity	Φ V	IF=150mA	LSL × 0.7	

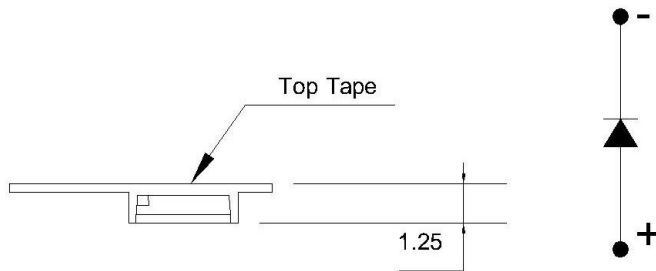
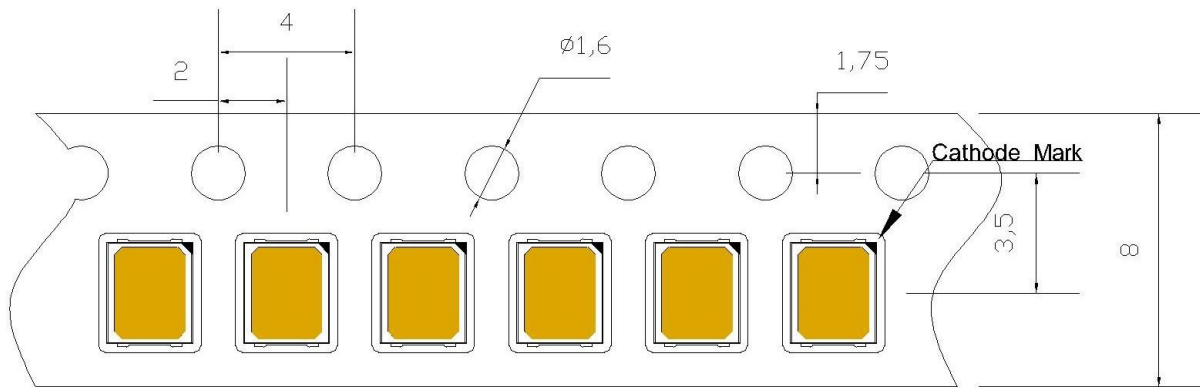
Note:

U.S.L.:Upper Standard Level

L.S.L.:Lower Standard Level

◆ Packaging Specifications

◆ Taping And Orientation



NOTE S:

1. The cathode is oriented towards the tape sprocket hole in accordance with ANSI/ELARS-481 specifications
2. 15000PCS/Reel.