

客户名称: _____
客户品号: _____
公司品号: FS2835L16FA14KR7S1V03W02
公司料号: _____
送样日期: _____

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



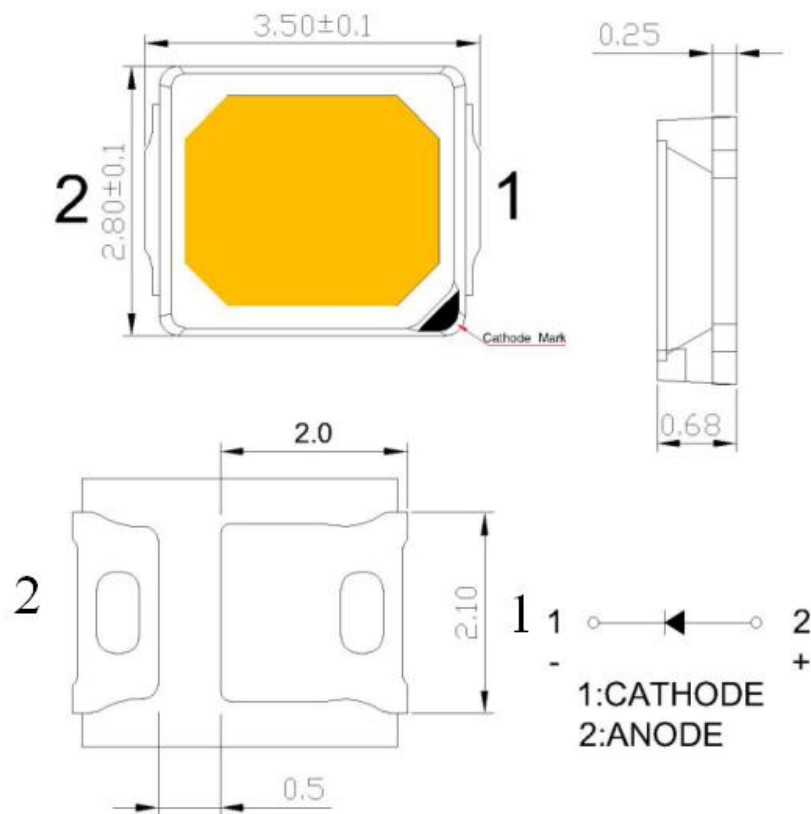
◆ Features

- ◆ 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:16000pcs/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 ±0.3mm (0.) unless otherwise noted.

◆ Absolute maximum ratings @ $I_F=60\text{mA}, T_a=25^\circ\text{C}$

Item	Symbol	Absolute Maximum Rating	unit
Forward Current	I_F	60	mA
Pulse Forward Current	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	200	mW
Operating Temperature	T_{opr}	-30~+85	$^\circ\text{C}$
Storage Temperature	T_{stg}	-30~+100	$^\circ\text{C}$
Junction Temperature	T_J	85	$^\circ\text{C}$
Electrostatic Discharge	ESD	2000(HBM)	V

Notes: [1] 1/10 Duty cycle, 0.1ms pulse width

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

Item	Symbol	Test Condition	Min	Typ	Max	Unit
Forward voltage [1]	VF	$I_F=60\text{mA}$	2.8	-	3.4	V
Luminous Flux	ϕ_v	$I_F=60\text{mA}$	15	20	-	lm
View Angle	2 θ 1/2	$I_F=60\text{mA}$	-	120	-	deg
Reverse Current	IR	$V_R=5\text{V}$	-	-	10	μA
Correlated Color Temperature	CCT	$I_F=60\text{mA}$	1400	-	1600	K
Color Rendering Index	CRI	$I_F=60\text{mA}$	70	-	-	Ra
CIE Chromaticity	X	$I_F=60\text{mA}$	please see the bin sorting standard			
	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=60mA ,Ta=25°C (Unit:lm)

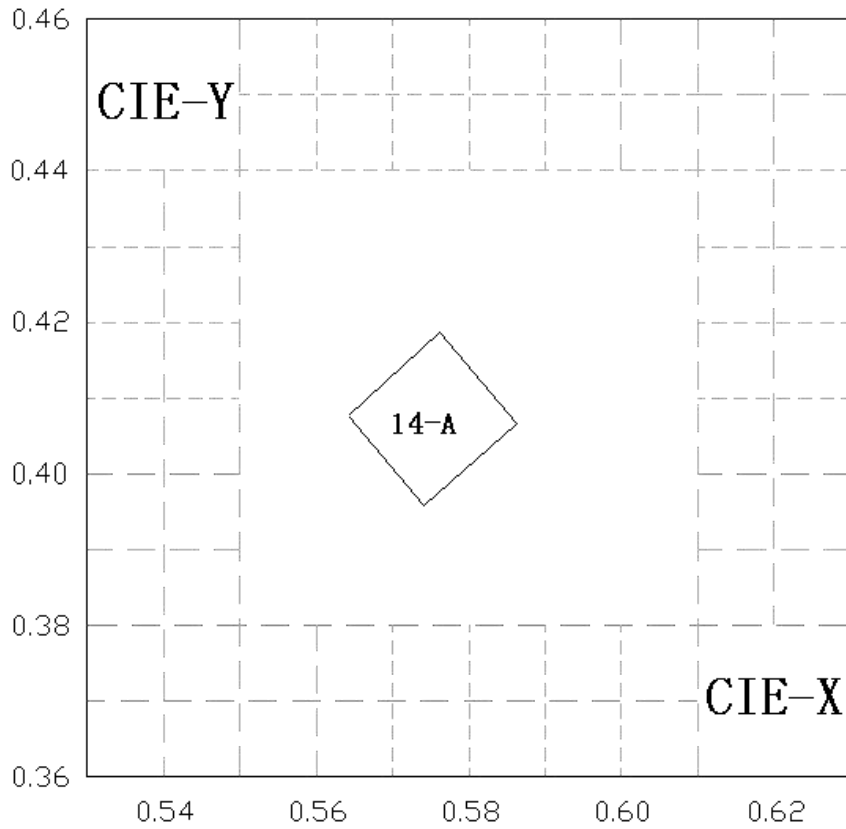
BIN	Min	Max	BIN	Min	Max
L1	14	16	L3	16	18
L5	18	20			

◆ Forward Voltage Rank V_F @IF=60mA, Ta=25°C (Unit:V)

Bin	Min	Max	Bin	Min	Max
V7	2.8	3.0	V11	3.2	3.4
V9	3.0	3.2			



◆ Color Rank @IF=60mA ,Ta=25°C(Unit:X/Y)



色区名	坐标				
	X	0.5742	0.5641	0.5762	0.5863
14-A	Y	0.3957	0.4077	0.4188	0.4067

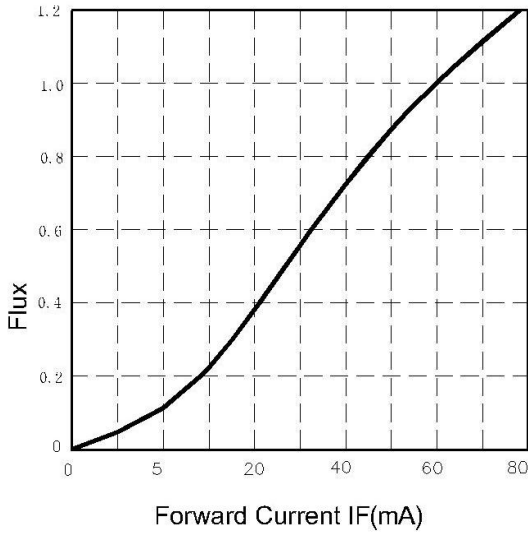
Notes:

[1] Color Coordinates Measurement allowance is ± 0.01 ;

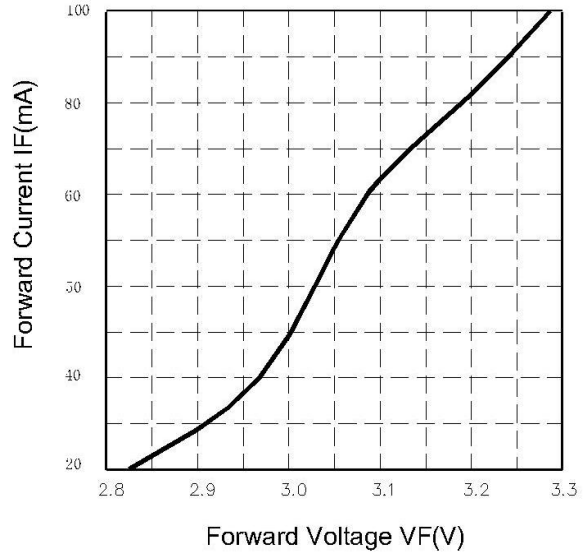
[2] Capitalized Bins are our main Bins

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

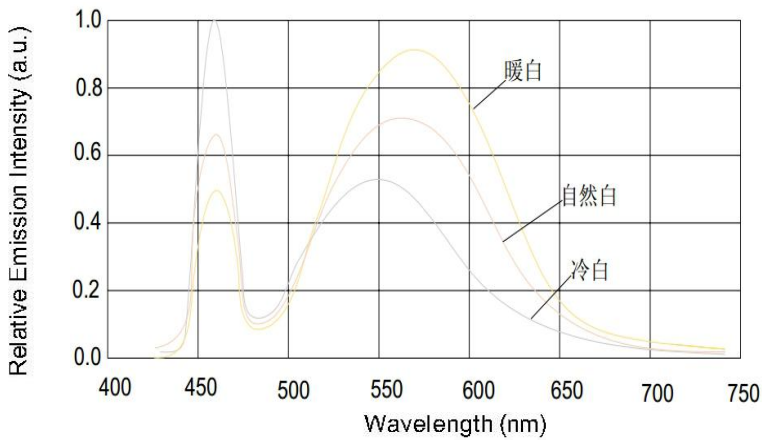
Flux vs. Forward Current



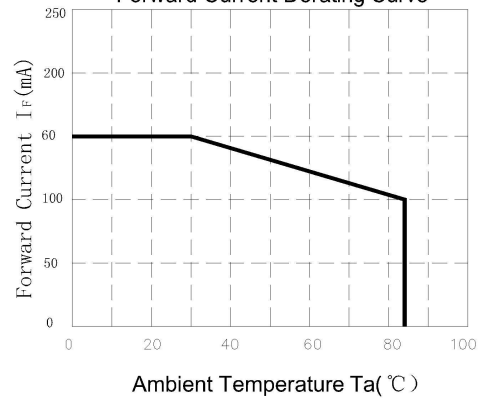
Forward Voltage VS Forward Current



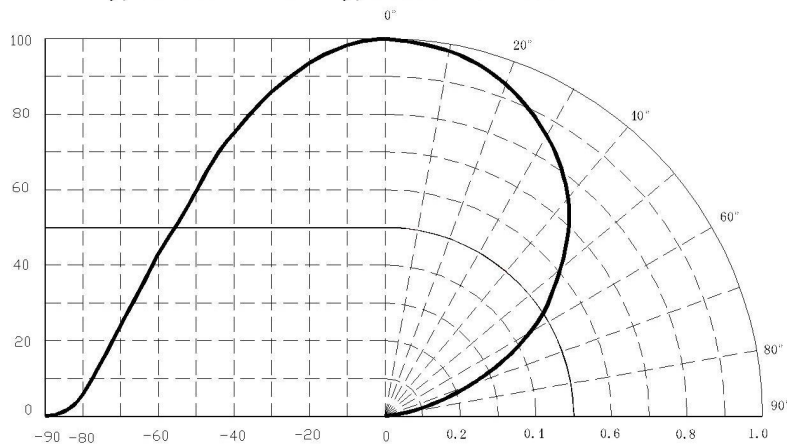
Relative Emission Intensity VS Wavelength



Forward Current Derating Curve



Typical Lambertian Type Radiation Pattern



◆RELIABILITY
◆TEST ITEMS AND RESULTS

Test Item	Rdf.Standard	Test Conditions	Note	Number of Damaged
High Temperature storage	EIAJED-4701 200 201	Ta=100℃	1000 hrs	0/22
Low Temperatue Storage	EIAJED-4701 200 202	Ta=-40℃	1000 hrs	0/22
Thermal Shock	JEITA ED-4701 200 303	-40℃ 30min ↓↑5sec +100℃ 30min	100 cycle	0/22
High Temperature / High Humidity	JEITA ED-4701 100 103	85℃,RH=85%	1000 hrs	0/22
Room Temperature	Internal Reference	Ta=25℃ IF=60mA	1000 hrs	0/22
High Humidity Heat Test	Internal Reference	+60℃,90%RH IF=60mA	500 hrs	0/22
Low Temperature Test	Internal Reference	Ta=-40℃ IF=60mA	500 hrs	0/22

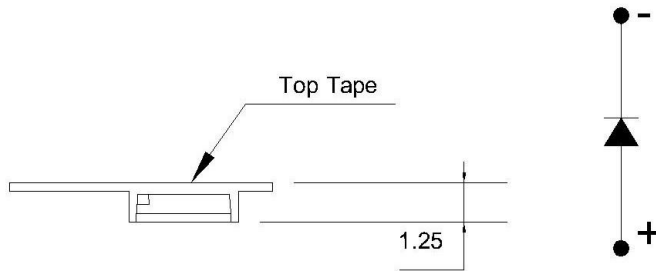
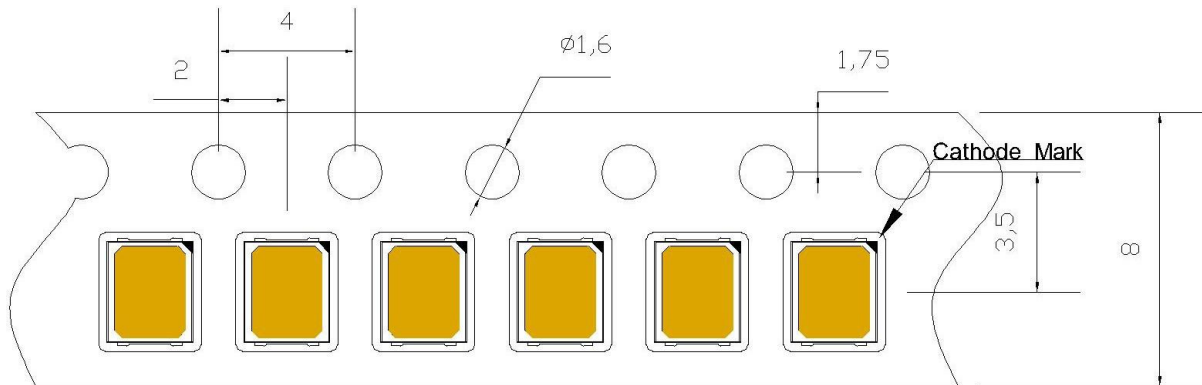
◆CRITERIA FOR JUDGING THE DAMAGE

Item	Symbol	Test Conditions	Criteria for Judgement	
			Min.	Max.
Forward Voltage	VF	IF=60mA	—	U.S.L*)×1.1
Luminous Intensity	ΦV	IF=60mA	LSL×0.7	

Note:
U.S.L.:Upper Standard Level
L.S.L.:Lower Standard Level

◆ Packaging Specifications

◆ Taping And Orientation



NOTES:

1. The cathode is oriented towards the tape sprocket hole in accordance with ANSI/ELARS-481 specifications
2. 16000PCS/Reel.