



**SURFACE MOUNT LIGHT EMITTING DIODE**

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# LED APPROVAL SHEET

**Part No:**

**AL3535A-BWW-BA006F1**

MAKER			CUSTOMER		

**NOTE :**

**Tri-Wavelength White LED**  
**Green Part**

Prepared	Checked	Approved
<i>Pony Hsieh</i>	<i>Simon Wen</i>	<i>Jean Chen</i>



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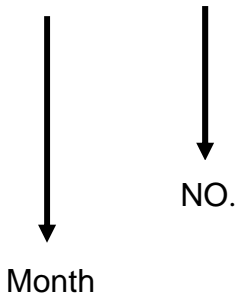
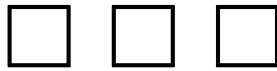
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Description of P/N No.

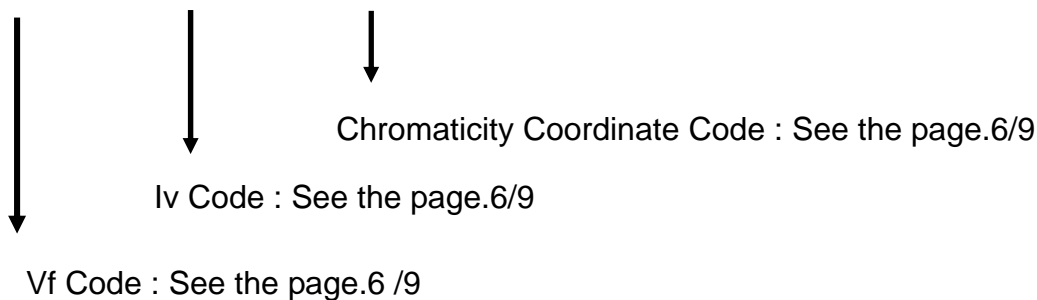
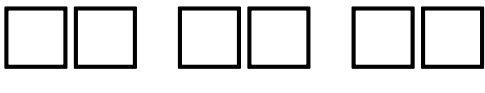
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Description of Lot.



Description of Rank



**Solidlite Corp.** 

P/N : \_\_\_\_\_

Lot : \_\_\_\_\_

Date: \_\_\_\_\_ . Rank: \_\_\_\_\_

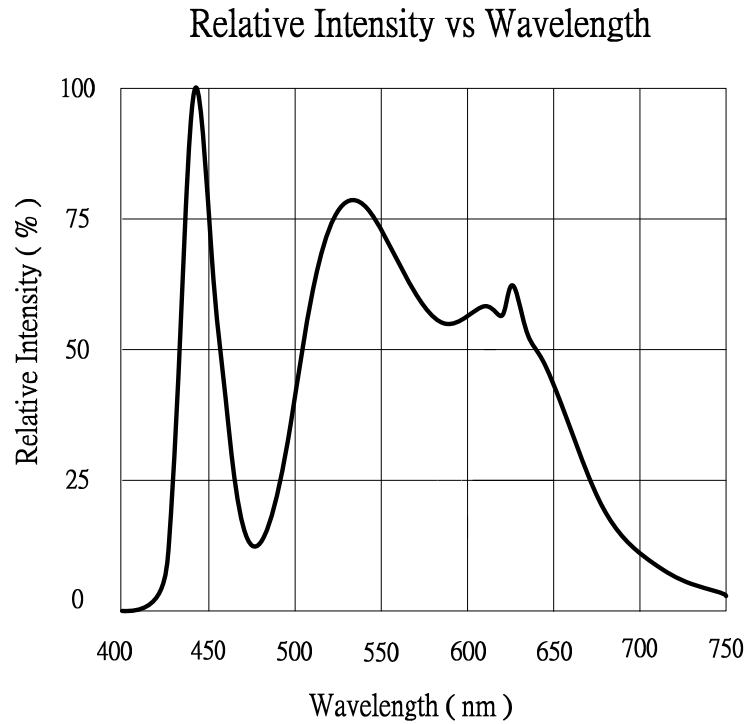
Q'ty : \_\_\_\_\_ . QA : \_\_\_\_\_



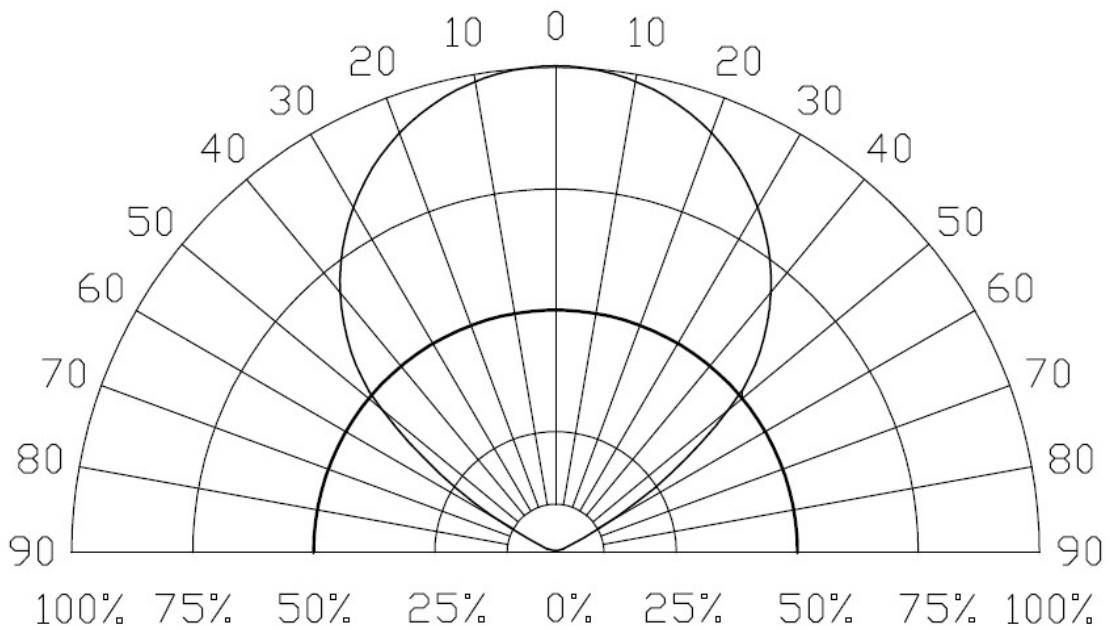
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### LED Spectrum



### LED Spatial Distribution



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**Surface Mounting Condition**

In automatic mounting of the SMD LEDs on printed circuit boards, any bending , expanding and pulling forces or shock against the SMD LEDs shall be kept min. to prevent them from electrical failures and mechanical damages of the devices .

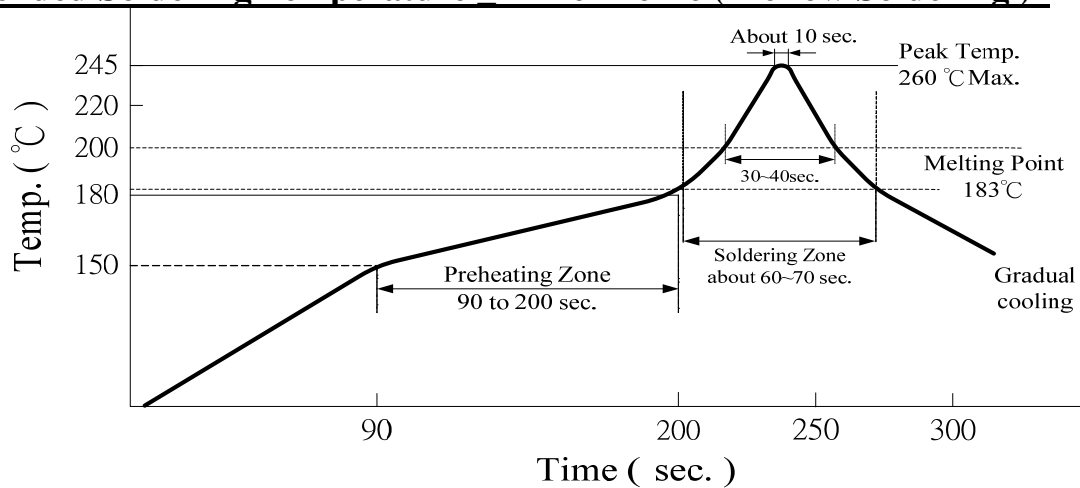
**Soldering Reflow**

Soldering of the SMD LEDs shall conform to the soldering condition in the individual specifications. SMD LEDs are designed for Reflow Soldering .

In the reflow soldering , too high temperature and too large temperature gradient such as rapid heating / cooling may cause electrical & optical failure and damages of the devices .

Solidlite can not guarantee the LED after they have been assembled using the solder dipping method .

**commended Soldering Temperature Time Profile ( Reflow Soldering )**





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## Part No. AL3535A-BWW-BA006F1

### LED Ranks Combination

Vf(V)			Luminous Intensity(mcd)			BWW(WHITE)				
Vf@120mA			Iv@120mA			Chromaticity Coordinate CIE(X/Y)@120mA				
Code	min	max	Code	min	max	Code	CIE-X / Y			
A2	3.0	3.1	EB	7000	8000	F3	(0.314,0.354)	(0.328,0.368)	(0.329,0.336)	(0.317,0.325)
A3	3.1	3.2	EC	8000	9000	F4	(0.317,0.325)	(0.329,0.336)	(0.330,0.310)	(0.319,0.301)
A4	3.2	3.3	ED	9000	10000	G1	(0.328,0.368)	(0.348,0.385)	(0.346,0.360)	(0.329,0.345)
A5	3.3	3.4	-	-	-	G2	(0.329,0.345)	(0.346,0.360)	(0.343,0.332)	(0.330,0.320)
A6	3.4	3.5	-	-	-	H1	(0.348,0.385)	(0.367,0.400)	(0.362,0.373)	(0.346,0.360)
-	-	-	-	-	-	H2	(0.346,0.360)	(0.362,0.373)	(0.357,0.342)	(0.343,0.332)
-	-	-	-	-	-	-	-	-	-	-

#:Please refer to CIE 1931 chromaticity diagram.

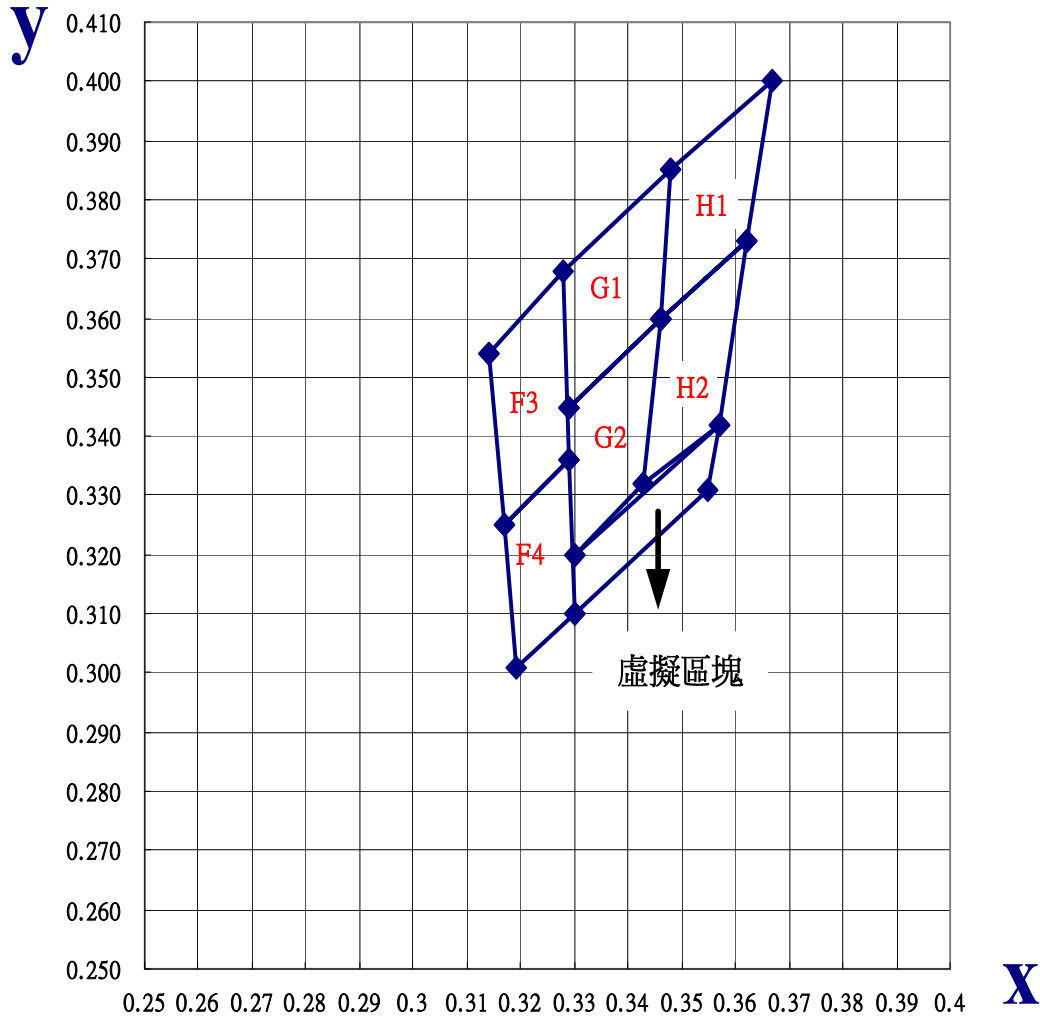
The quantity ratio of the ranks is decided by SOLIDLITE.

**Note:**

- 1.The products are sensitive to static electricity and care must be fully taken when handling products.
- 2.Measurement Uncertainty of the Luminous Intensity:  $\pm 10\%$
3. Measurement Uncertainty of the Chromaticity Coordinate:  $\pm 0.01$
4. Measurement Uncertainty of the Voltage:  $\pm 0.05V$

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Chromaticity Coordinate



Color Bins for Cool White		Typical CCT °K
Bin Code	CIE X/Y	
F3	(0.314,0.354) (0.328,0.368) (0.329,0.336) (0.317,0.325)	5650~6300
F4	(0.317,0.325) (0.329,0.336) (0.330,0.310) (0.319,0.301)	5650~6300
G1	(0.328,0.368) (0.348,0.385) (0.346,0.360) (0.329,0.345)	5000~5650
G2	(0.329,0.345) (0.346,0.360) (0.343,0.332) (0.330,0.320)	5000~5650
H1	(0.348,0.385) (0.367,0.400) (0.362,0.373) (0.346,0.360)	4500~5000
H2	(0.346,0.360) (0.362,0.373) (0.357,0.342) (0.343,0.332)	4500~5000



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**C. LED Board Data**

**Absolute Maximum Ratings at  $T_A=25^{\circ}C$**

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	2.37	W
D.C. Forward Current	If	720	mA

**Electrical and Optical Characteristics at  $T_A=25^{\circ}C$**

Parameter	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Chromaticity Coordinate <sup>#</sup>	$I_F=720mA$	CIE-X	0.314	----	0.367	-
		CIE-Y	0.301		0.400	
Luminous Flux	$I_F=720mA$	$\Phi_v$	—	125	—	lm
Forward Current	$I_f=720mA$	Vf	—	3.2	—	V

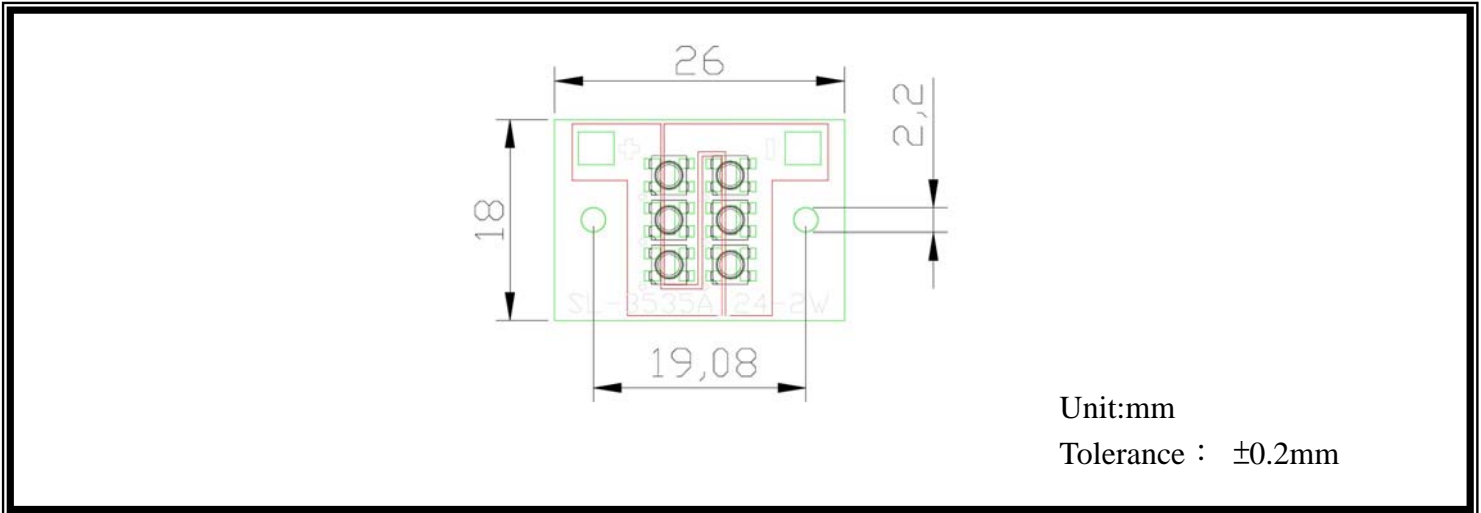
<sup>#</sup>:Please refer to CIE 1931 chromaticity diagram.  
 Recommend forward current for longer duration is 720mA.  
 These values measured by Optical Spectrum Analyzer of SOLIDLITE.



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LED Bar Dimension



Typical Internal Equivalent Circuits

