

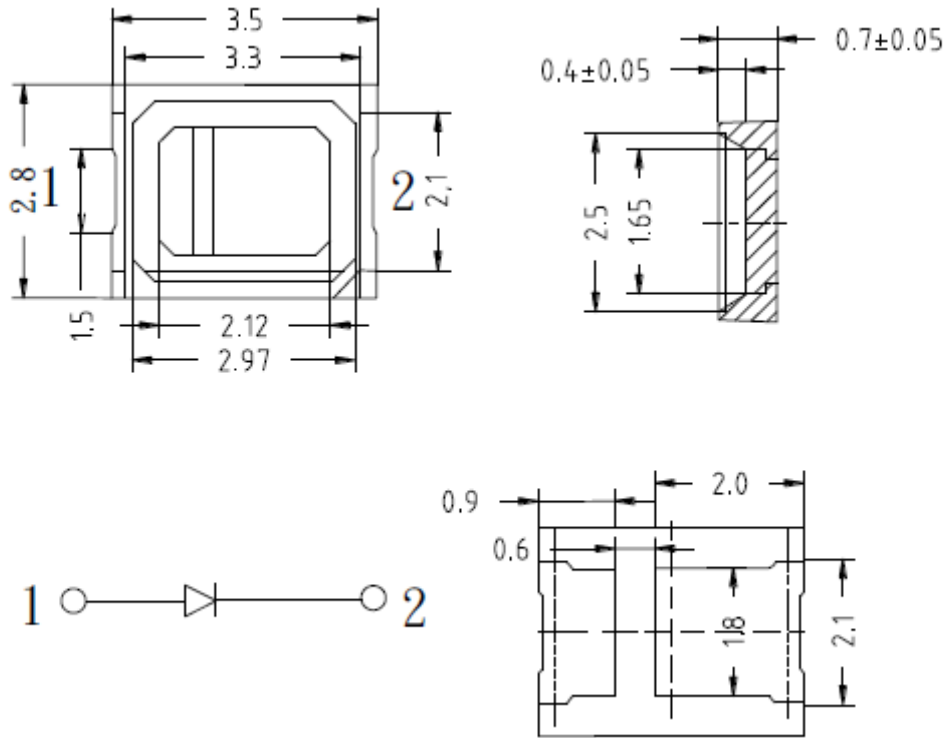


SHARLIGHT ELECTRONICS CO., LTD.

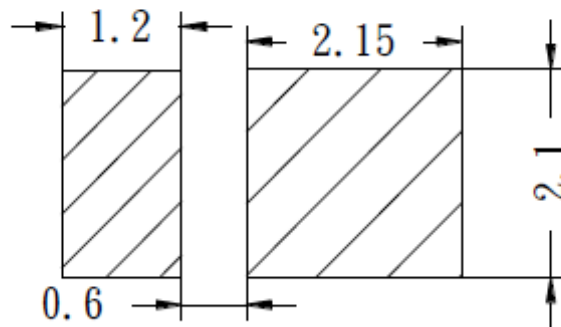
SPECIFICATION FOR APPROVAL

Part No. : SLM-2835NW4A-A22-EC (COOL WHITE)

Package Dimensions



RECOMMEND PADLAYOUT



Part NO.	Chip Material	Lens Color	Emission Color
SLM-2835NW4A-A22-EC	InGaN	-	White

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Specifications are subject to change without notice.



SHARLIGHT ELECTRONICS CO., LTD.

SPECIFICATION FOR APPROVAL

Part No. : SLM-2835NW4A-A22-EC (COOL WHITE)

Absolute Maximum Ratings at TA=25°C

Parameter	Maximum Rating	Unit
Forward Current	100	mA
Power Dissipation	204	mW
Reverse Voltage	5	V
Operating Temperature Range	-40°C to + 80°C	
Storage Temperature Range	-40°C to + 100°C	
Soldering Temperature	260°C for 5 Seconds	

Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Lumen	Φ		23		lm	IF =60mA
Wavelength	X		0.3212			IF =60mA
	Y		0.3355			
Viewing Angle	2θ 1/2		120		deg	IF =60mA
Forward Voltage	VF		3.2	3.4	V	IF =60mA
Reverse Current	IR			10	μA	Vr = 5v
Color Rendering Index	CRI		70		%	IF =60mA
Color Temperature	CCT		6020		K	IF =60mA

Range of bins

Bin	B	C	D	E	F	G
VF(V)	2.8-2.9	2.9-3.0	3.0-3.1	3.1-3.2	3.2-3.3	3.3-3.4
Bin	17	18	19			
LM(lm)	22-24	24-26	26-28			
Bin						
WL	1B1	1B2	2A1	2A2		

LISTER: 王貴蘭 10-04-13

EDITOR: 周素華 10-04-13

DATE: 10-04-13

REV: A

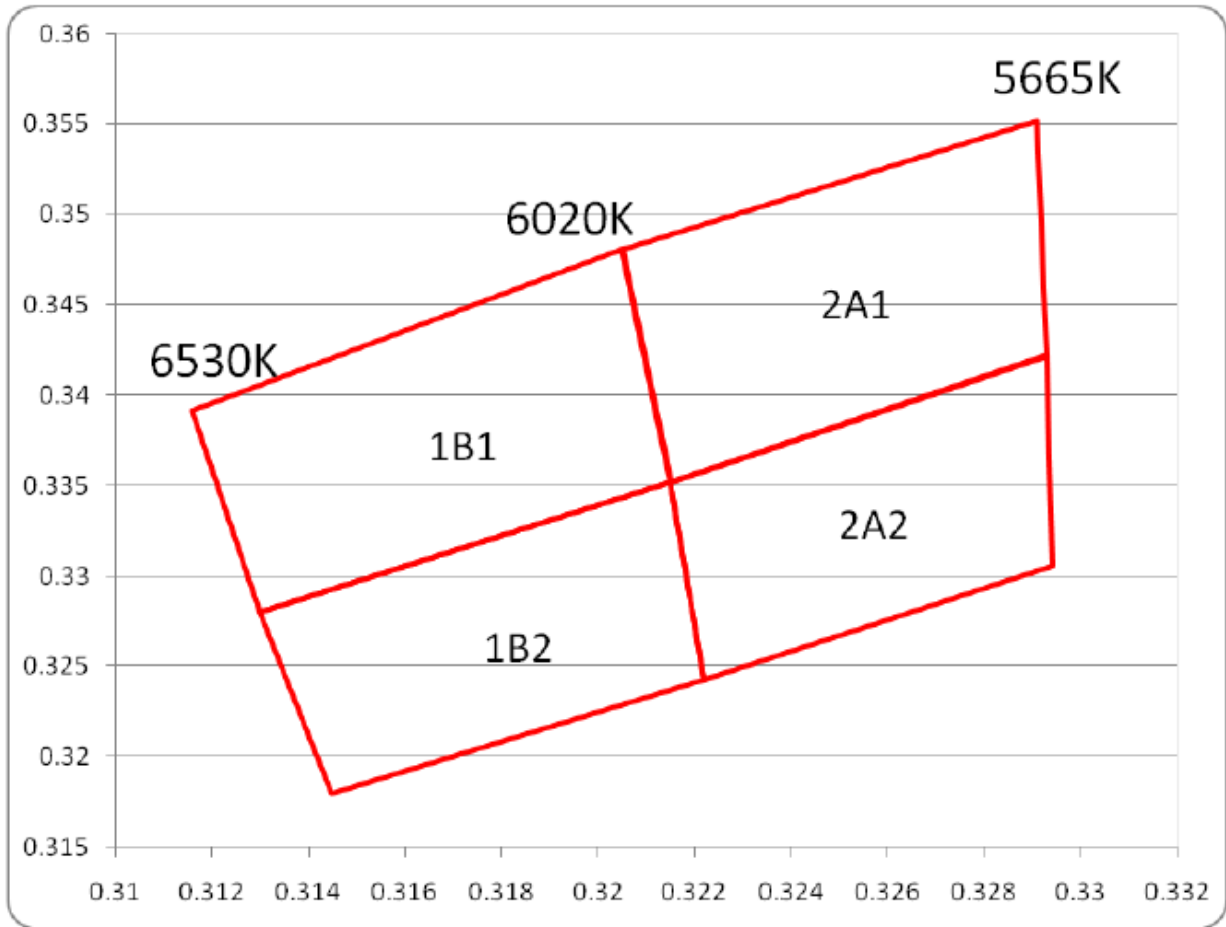


SHARLIGHT ELECTRONICS CO., LTD.

SPECIFICATION FOR APPROVAL

Part No. : SLM-2835NW4A-A22-EC (COOL WHITE)

■ Color Coordinate Comparison



1B1	X	0.3205	0.3116	0.313	0.3215
	Y	0.3481	0.3392	0.328	0.3352
1B2	X	0.3215	0.313	0.3145	0.3222
	Y	0.3352	0.328	0.318	0.3243
2A1	X	0.3291	0.3205	0.3215	0.3293
	Y	0.3552	0.3481	0.3352	0.3422
2A2	X	0.3293	0.3215	0.3222	0.3294
	Y	0.3422	0.3352	0.3243	0.3306

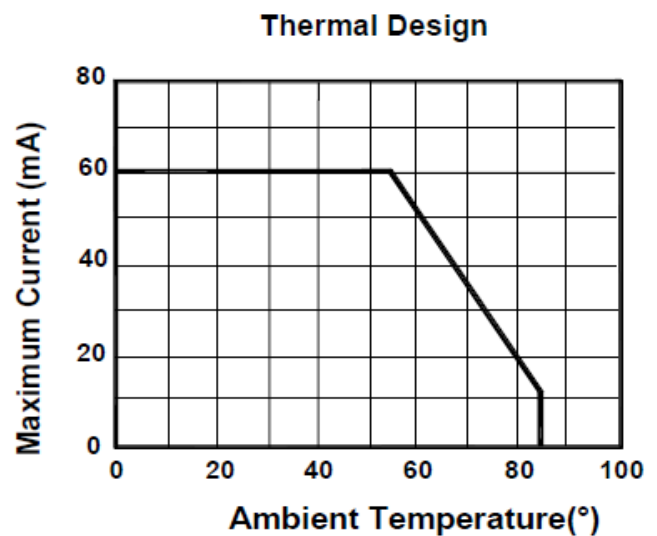
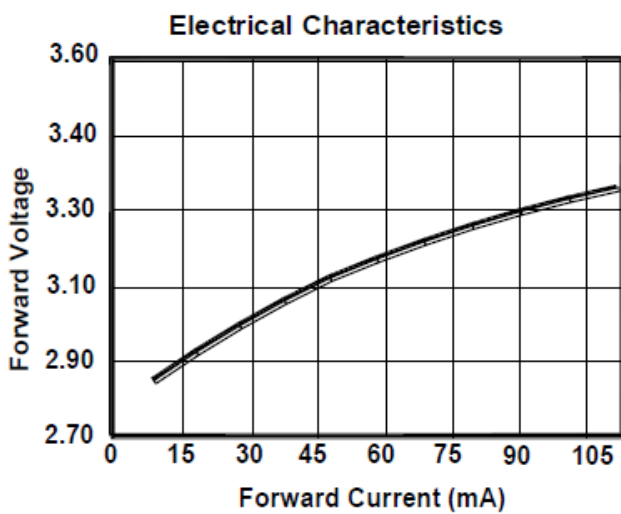
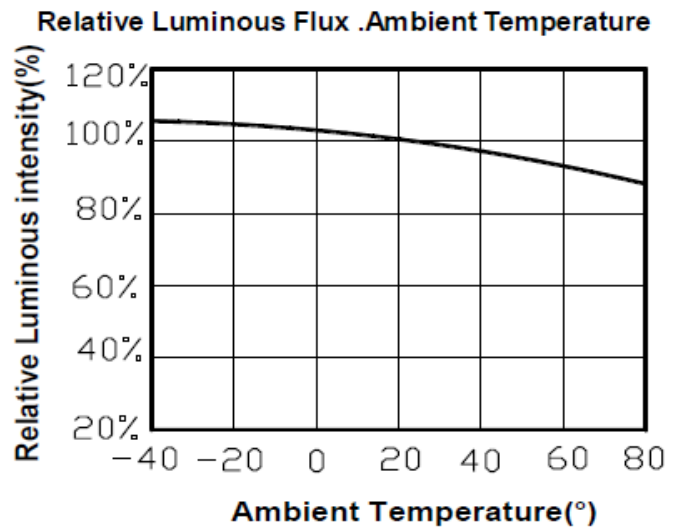
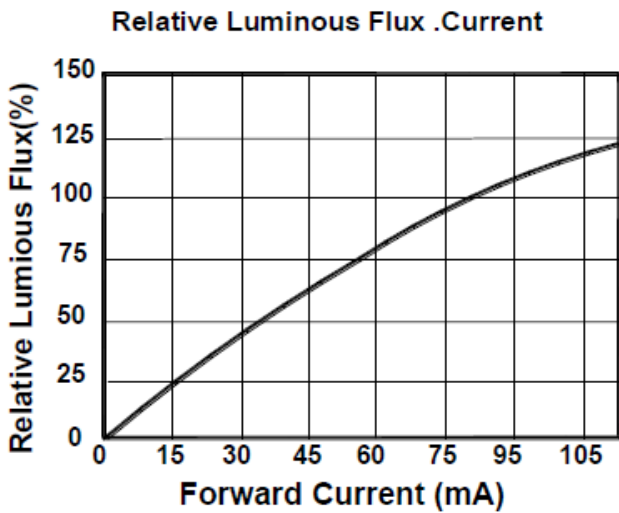
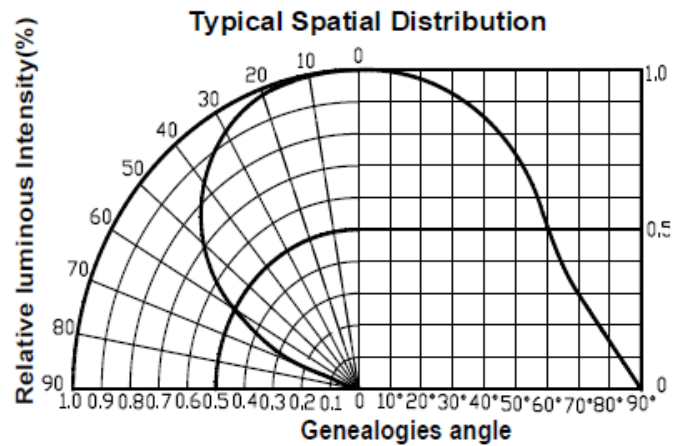
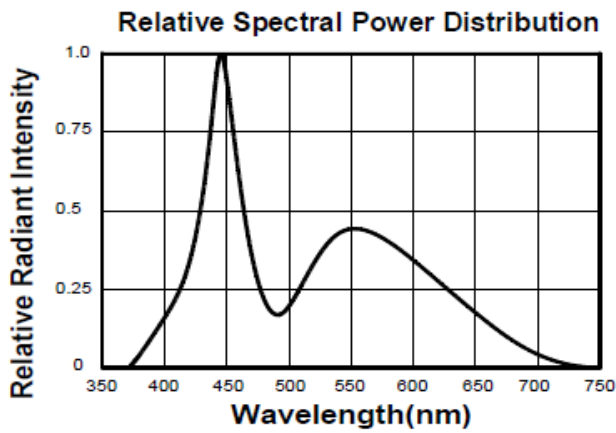


SHARLIGHT ELECTRONICS CO., LTD.

SPECIFICATION FOR APPROVAL

Part No. : SLM-2835NW4A-A22-EC (COOL WHITE)

Optical Characteristics-1



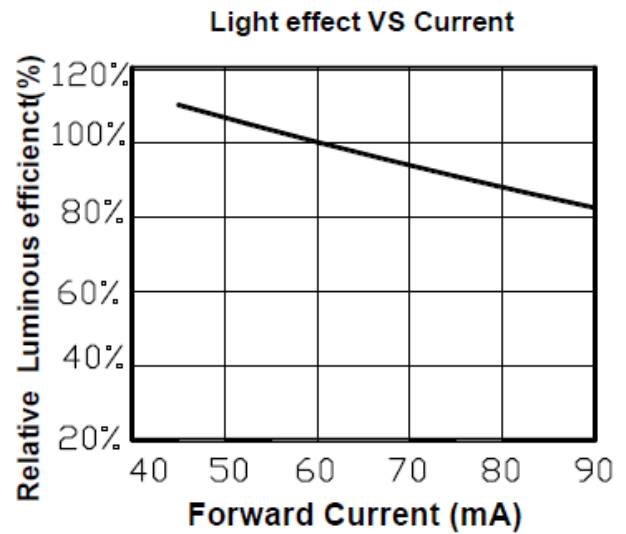
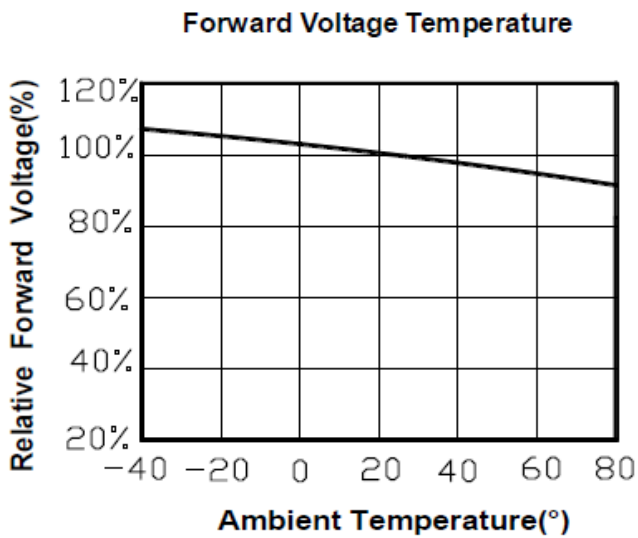


SHARLIGHT ELECTRONICS CO., LTD.

SPECIFICATION FOR APPROVAL

Part No. : SLM-2835NW4A-A22-EC (COOL WHITE)

Optical Characteristics-2



Test items and results of reliability

Type	Test Item	Test Standard	Test Conditions	Note	Number of Damaged
Environmental Sequence	Temperature Cycle	JEITA ED-4701 300 303	-40°C 30min ↑↓5 min 100°C 30min	100 cycle	0/50
	Thermal Shock	JEITA ED-4701 200 303	-10°C 15min ↑↓5sec 100°C 15min	20 cycle	0/22
	High Temperature Storage	JEITA ED-4701 200 201	T _a =100°C	1000 hrs	0/22
	Humidity Heat Storage	JEITA ED-4701 100 103	T _a =60°C RH=90%	1000 hrs	0/22
	Low Temperature Storage	JEITA ED-4701 200 202	T _a =-40°C	1000 hrs	0/22
Operation Sequence	Life Test	Tested with Brightek standard	T _a =25°C I _F =60mA	1000 hrs	0/22
	High Humidity Heat Life Test	Tested with Brightek standard	60°C RH=90% I _F =30mA	500 hrs	0/22
	Low Temperature Life Test	Tested with Brightek standard	T _a =-30°C I _F =60mA	1000 hrs	0/22



SHARLIGHT ELECTRONICS CO., LTD.

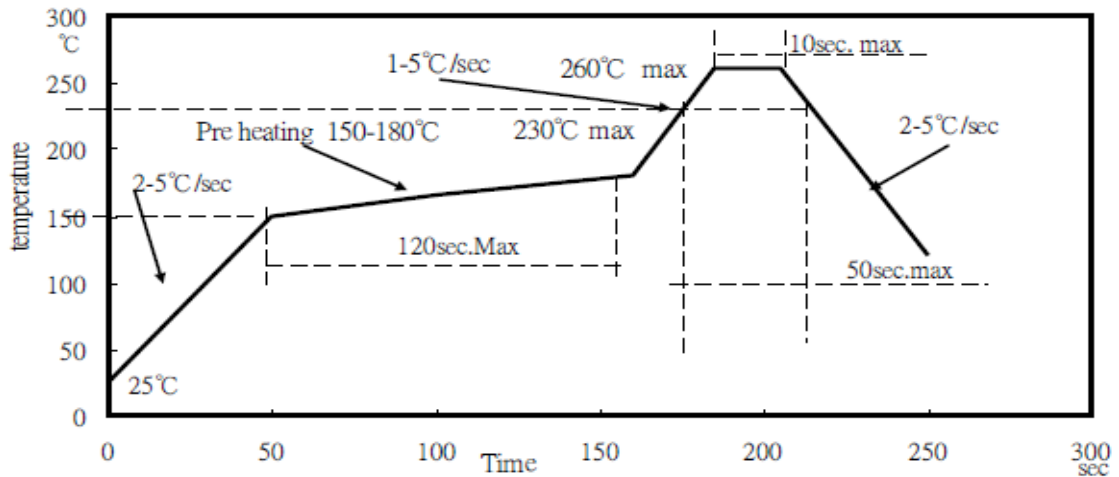
SPECIFICATION FOR APPROVAL

Part No. : SLM-2835NW4A-A22-EC (COOL WHITE)

Reflow Profile

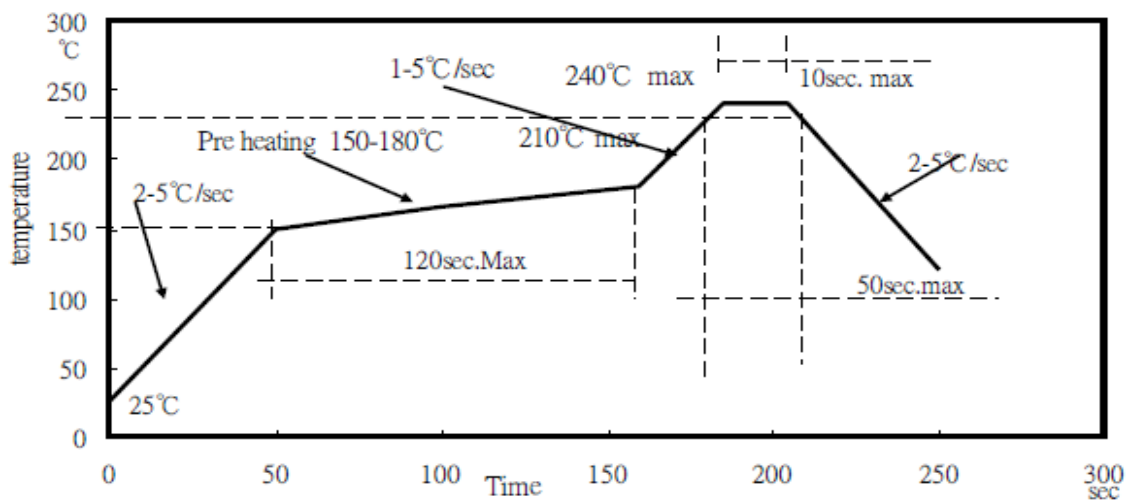
1. IR reflow soldering Profile

Lead Free solder



2. IR reflow soldering Profile

Lead solder



NOTES:

1. We recommend the reflow temperature 240°C(±5°C). the maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to the silicone resin while it is exposed to high temperature.
3. Number of reflow process shall be 1 time.



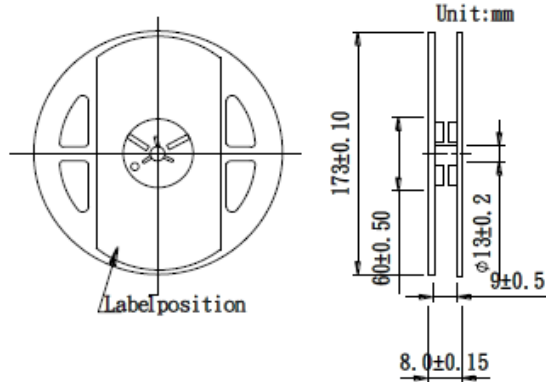
SHARLIGHT ELECTRONICS CO., LTD.

SPECIFICATION FOR APPROVAL

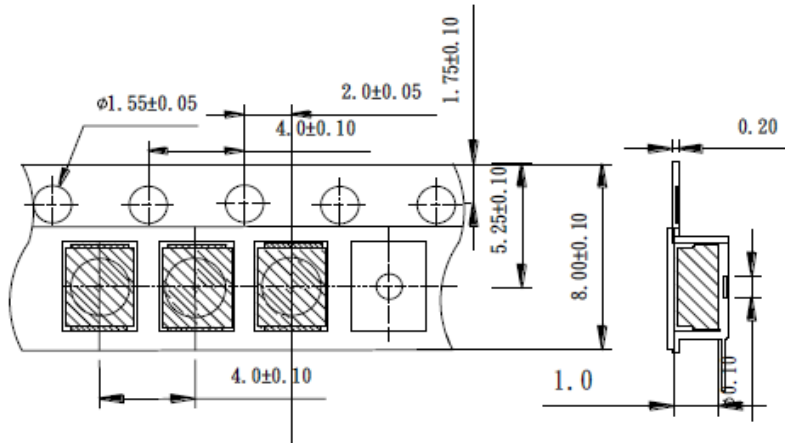
Part No. : SLM-2835NW4A-A22-EC (COOL WHITE)

■ Packing

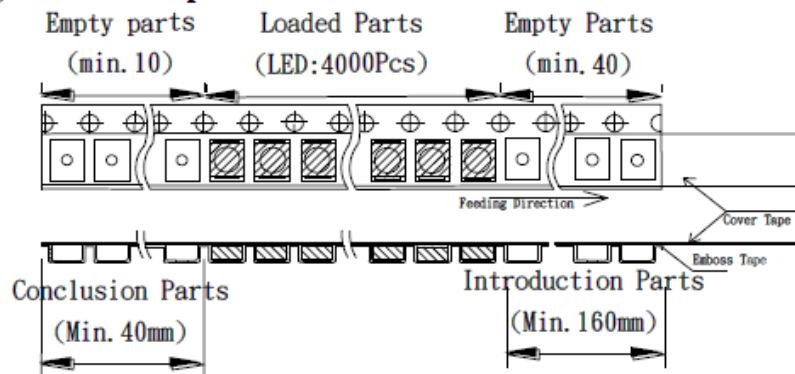
● Dimensions of Reel (Unit: mm)



● Dimensions of Tape (Unit: mm)



● Arrangement of Tape



NOTES

1. Empty component pockets are sealed with top cover tape;
2. The maximum number of missing smd is two;
3. The cathode is oriented towards the tape sprocket hole in accordance with ANSI/EIA RS-481 specifications;
4. 4,000pcs/Reel



SHARLIGHT ELECTRONICS CO., LTD.
SPECIFICATION FOR APPROVAL

Part No. : SLM-2835NW4A-A22-EC (COOL WHITE)

※Note :

Recommended storage conditions :

1. Storage Condition:

- a. don't open the sealed bag until the Reflow Soldering ◦
- b. before open the sealed bag, please keep bag at Ambient Temperature from 5 to 25°C and Relative Humidity < 60% ◦
- c. storage life: within 6 months ◦

2. Once overdue the storage life or after open the sealed bag for 12 hours , the LED has to be oven at 70°C for 24 hours before the Reflow Soldering ◦

3. After oven the LED, the Reflow Soldering has to be completed within 12 hours. ◦

Otherwise, the oven LED has to be sealed in bag again and storage at Ambient Temperature of 23 +/- 5°C & RH 5~30% ◦