客户（Customer）:_____

承认书
Approval Sheet

谨致执事者：兹提供敝公司之有关详细规格及图面数据，敬请给予办理试认定手续.
同时敬请送返一份附有贵公司签认之测试认定后之样品承认书.

We are pleased in sending you herewith on specification and drawings for your approval.
Please return to us one copy “Approval sheet” with your approved signature.

型号（Model No.） : A-SL910W1D-B01-4T

发文日期（Issue Date）: 2022/06/09 承认日期（Approved Date）:_____

Checking signature of Amicc

Designer	Checker	Approver
Mars	Tommy	Solarliu

Approval signature of customer

Designer	Checker	Approver

江苏欧密格光电科技股份有限公司
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Mini power Type▪ Top View 1808 Package

A-SL910W1D-B01-4T

■ Description

The Amicc 910 package has high efficiency , low power consumption, wide viewing angle and a compact form. These features make this package to be an ideal LED for all lighting applications.

■ Features

- Top view LED
- High Luminous Intensity output
- Wide viewing angle
- Pb-free
- RoHS compliant
- Compliance with EU REACH
- JEDEC MSL 3

■ Applications

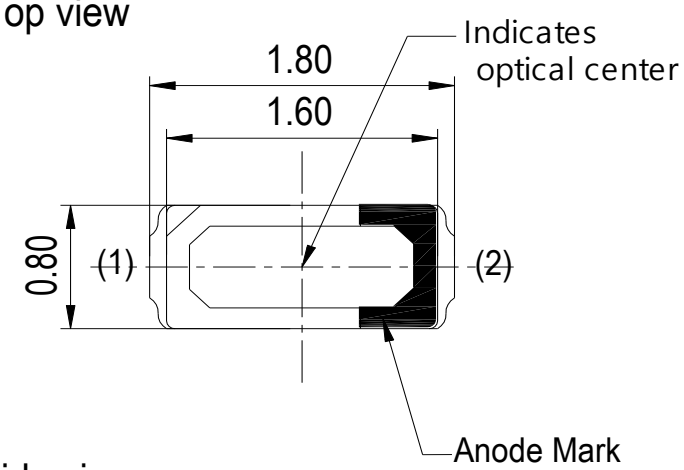
- Backlighting in dashboard and switch
- Backlighting and Indicator light in Telecommunication equipment
- Flat backlight for LCD,switch and symbol
- General use

■ Device Selection Guide

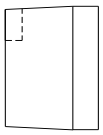
Chip Materials	Emitted Color	Resin Color
InGaN	White	Yellow Diffused

■ Package Dimensions

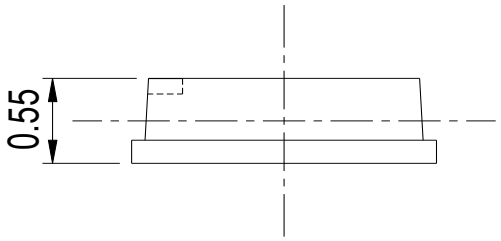
Top view



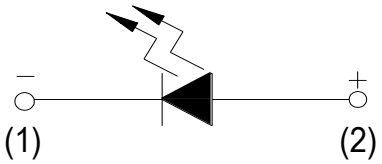
Side view



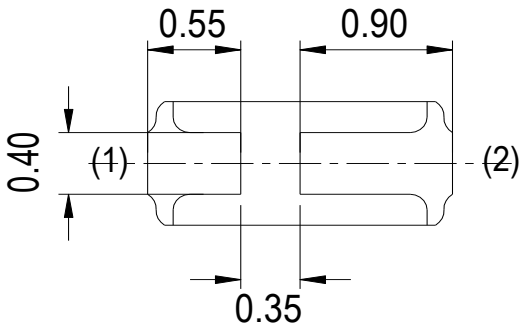
Side view



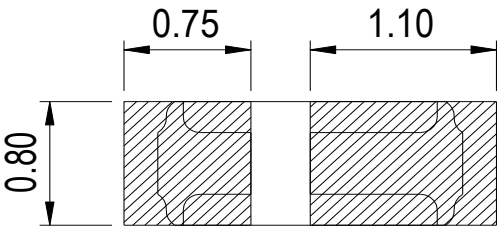
Polarity



Bottom view



Recommend Sodering Pad



Notes:
1. Dimensions are in millimeters
2.Tolerance is unless mentioned±0.1mm.

■ Absolute Maximum Ratings ($T_{Soldering}$=25℃)

Parameter	Symbol	Rating	Unit
Forward Current	I_F	20	mA
Surge Current（t≤10 us； D=0.005； Ts=25℃）	I_{FM}	300	mA
Power Dissipation	P_d	60	mW
Operating Temperature	T_{opr}	-40 ~ +85	℃
Storage Temperature	T_{stg}	-40 ~ +100	℃
Junction Temperature	T_j	115	℃
Soldering Temperature	T_{sol}	Reflow Soldering : 260 ℃ for 10 sec. Hand Soldering : 350 ℃ for 3 sec.	

■ Electro-Optical Characteristics ($T_{Soldering}$=25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Φ	1000	1300	1600	mcd	I_F=10mA
Forward Voltage	V_F	2.6	2.8	3.0	V	I_F=10mA
Chromaticity Coordinates	CIE-X	-----	0.315	-----	-----	I_F =10mA
Chromaticity Coordinates	CIE-Y	-----	0.325	-----	-----	I_F =10mA
Viewing Angle	$2\theta_{1/2}$	-----	120	-----	deg	I_F=10mA
Reverse Current	I_R	-----	-----	10	μA	V_R =5V

Notes:
1. Tolerance of Luminous Intensity: ±10%.
2. Tolerance of forward voltage: ±0.1V.

■ Bin Range of Luminous Intensity

Bin Code	Min.	Max.	Unit	Condition
B	1000	1200	mcd	I_F=10mA
C	1200	1400		
D	1400	1600		

Notes:
Tolerance of Luminous Intensity: ±10%.

■ Bin Range of Forward Voltage

Bin Code	Min.	Max.	Unit	Condition
33	2.6	2.7	V	I_F=10mA
34	2.7	2.8		
35	2.8	2.9		
36	2.9	3.0		

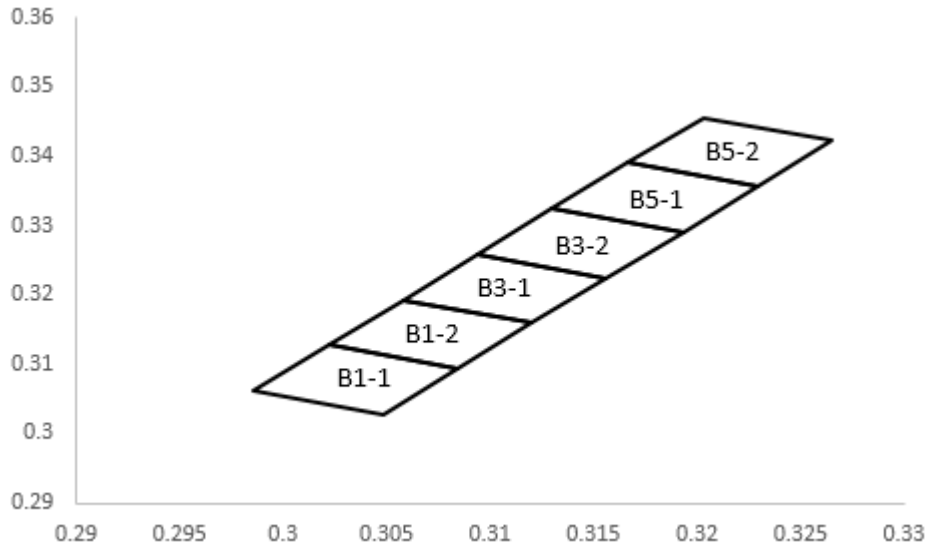
Notes:
Tolerance of Forward Voltage: ±0.1V.

■ Bin Range of Chromaticity Coordinates

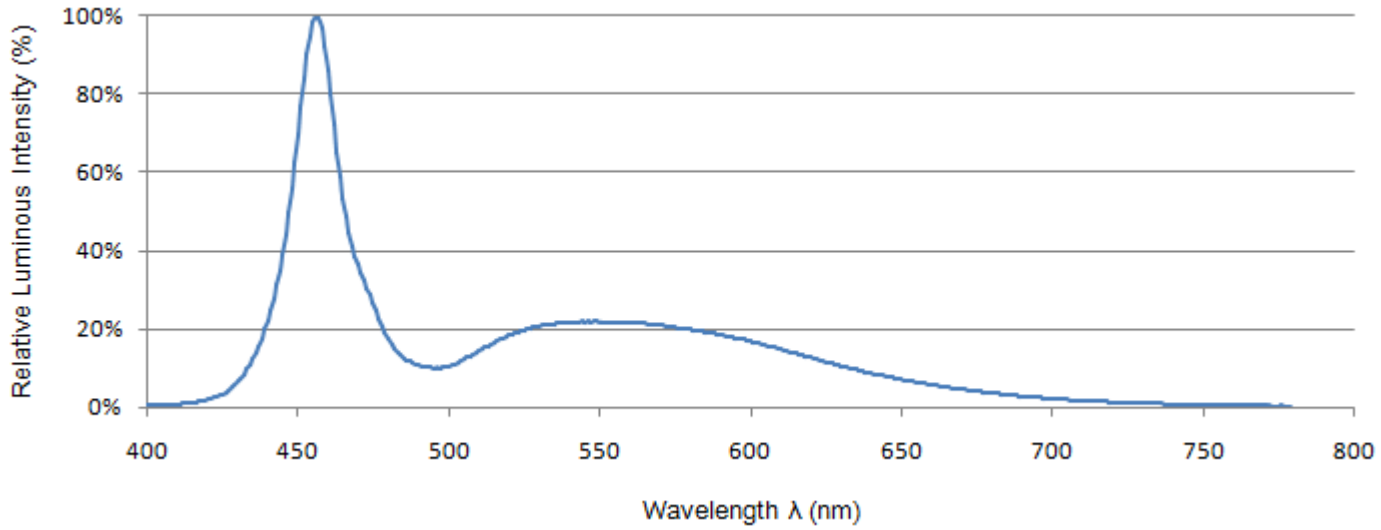
Bin Code	CIE_x	CIE_y	Bin Code	CIE_x	CIE_y
B1-1	0.2986	0.3061	B3-2	0.3094	0.3259
	0.3022	0.3127		0.313	0.3325
	0.3084	0.3093		0.3193	0.3291
	0.3048	0.3027		0.3156	0.3225
B1-2	0.3022	0.3127	B5-1	0.313	0.3325
	0.3058	0.3193		0.3166	0.3391
	0.312	0.3159		0.3229	0.3356
	0.3084	0.3093		0.3193	0.3291
B3-1	0.3058	0.3193	B5-2	0.3166	0.3391
	0.3094	0.3259		0.3203	0.3456
	0.3156	0.3225		0.3265	0.3422
	0.312	0.3159		0.3229	0.3356

Notes:
Tolerance of Chromaticity Coordinates: ±0.01.

■ The C.I.E. 1931 Chromaticity Diagram



■ Spectrum Distribution



■ Typical Electro-Optical Characteristics Curves

Fig.1-Forword Voltage Shift vs. Junction Temperature

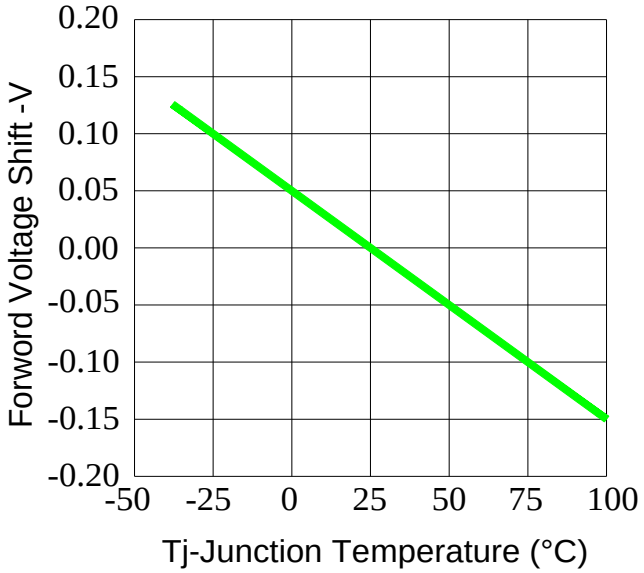
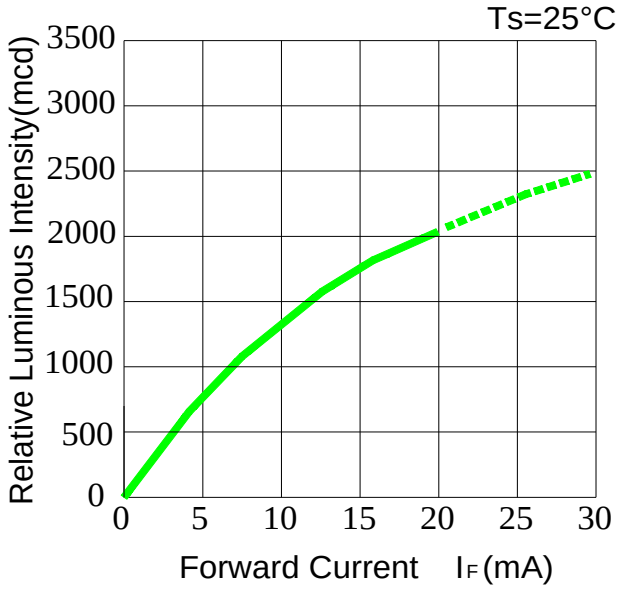


Fig.2-Relative Luminous Intensity vs. Forword Current



■ Typical Electro-Optical Characteristics Curves

Fig.3-Relative Luminous Intensity vs.Junction Temperature

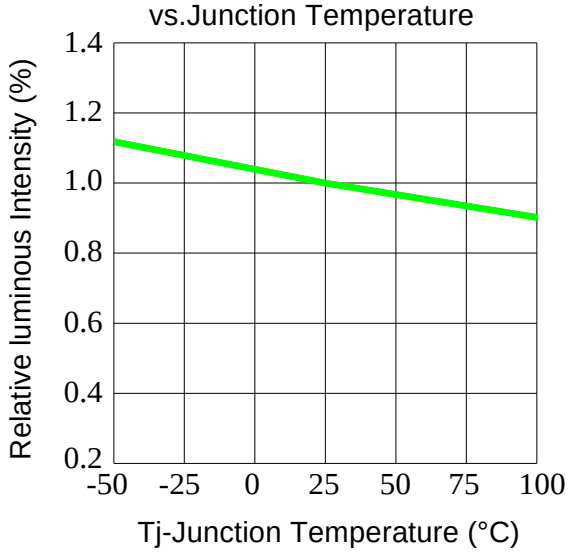


Fig.4-Forward Current vs. Forward Voltage Ta=25°C

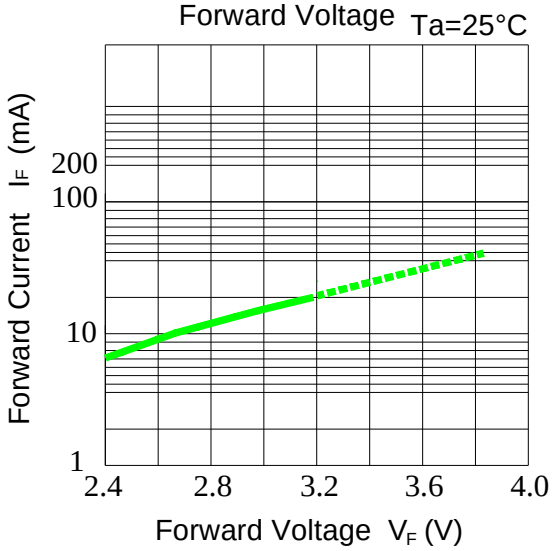


Fig.5-Max.Driving Forward Current vs.Soldering Temperture

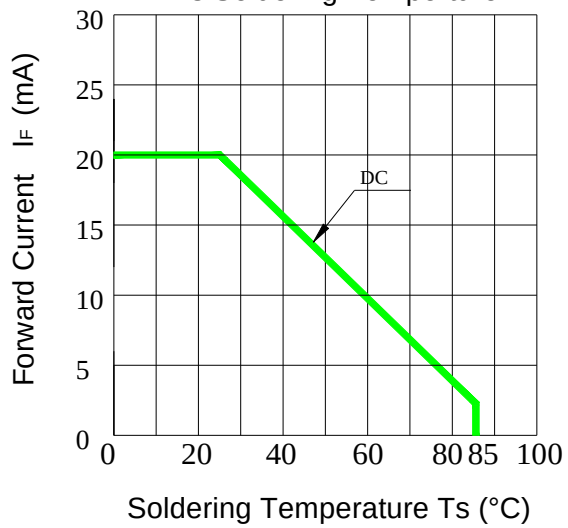
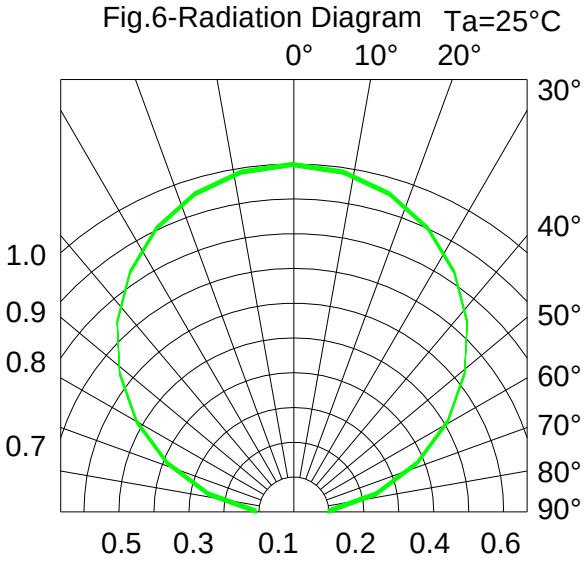
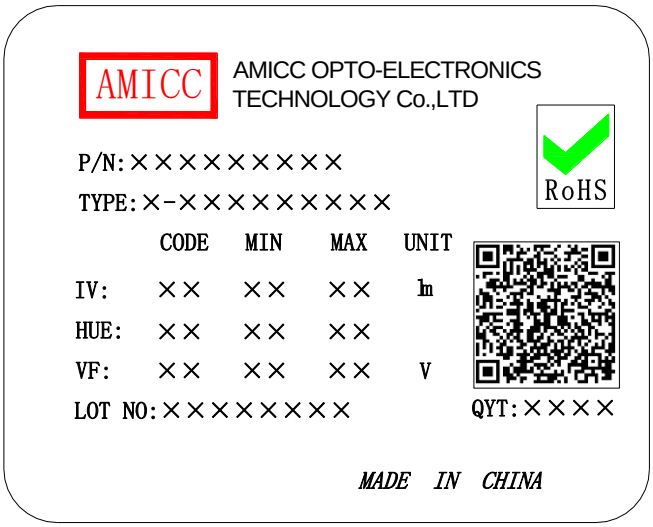


Fig.6-Radiation Diagram Ta=25°C



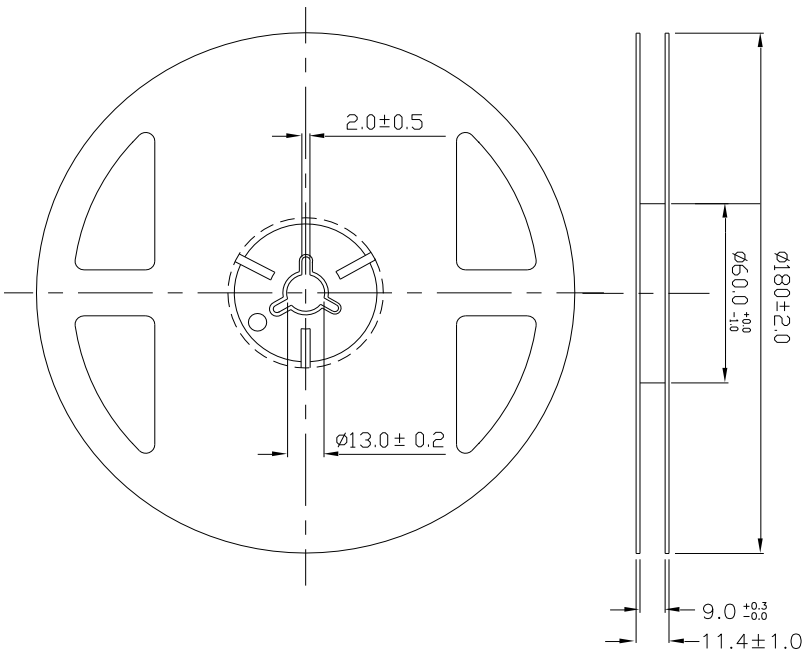
■ Moisture Resistant Packing Materials

1. Label Explanation



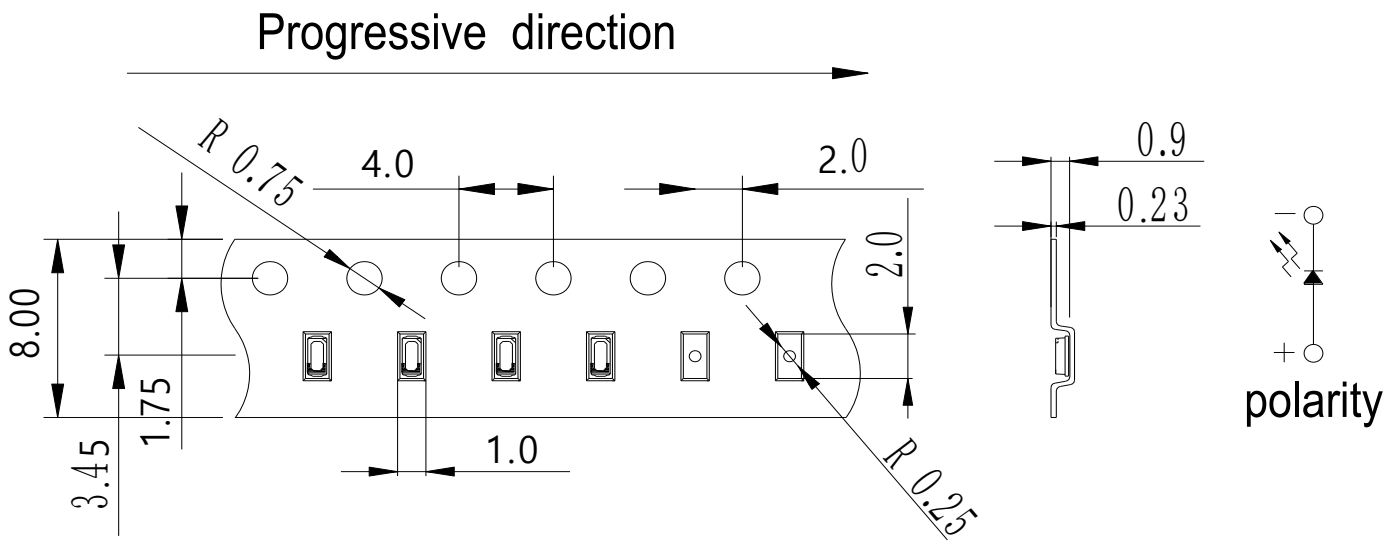
- CPN: Customer's Product Number
- P/N: Product Number
- TYPE: Part NO.
- IV: Luminous Intensity Rank
- HUE: Chromaticity Coordinates Rank
- VF: Forward Voltage Rank
- LOT No: Lot Number
- QTY: Packing Quantity

2. Reel Dimensions



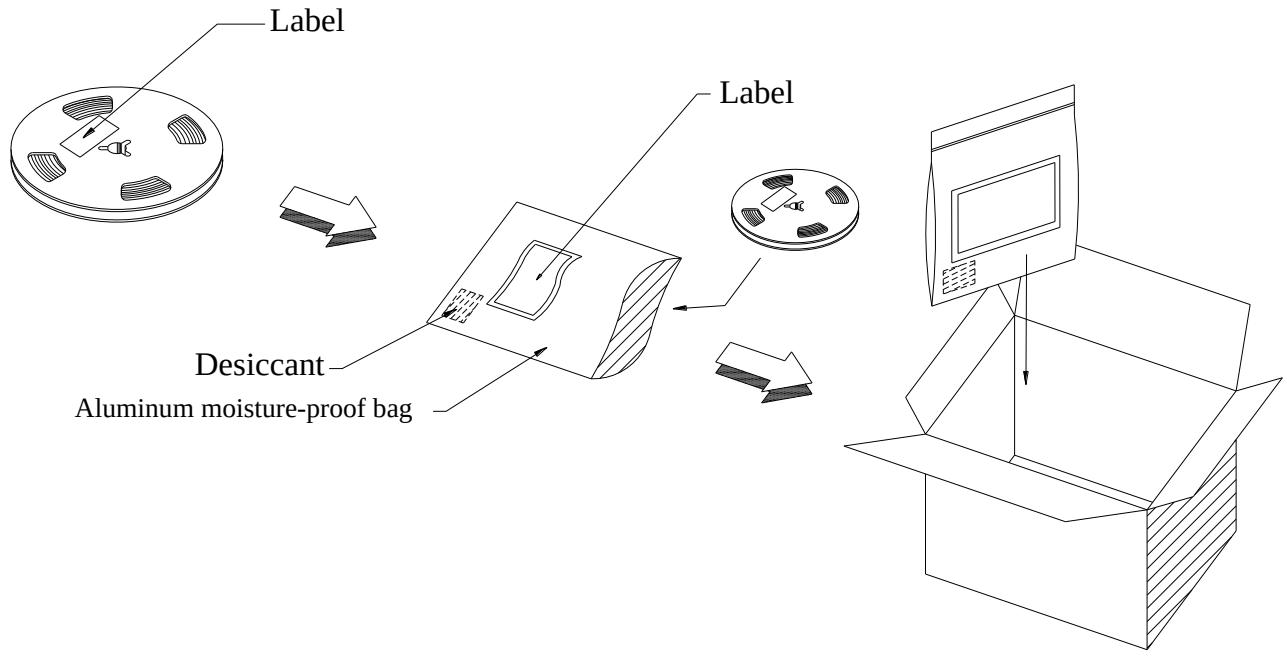
Notes:
1. Dimensions are in millimeters
2. Tolerances is unless mentioned ±0.1mm.

3. Carrier Tape Dimensions: Loaded Quantity 4000 pcs Per Reel



Notes:
1. Dimensions are in millimeters
2. Tolerance unless mentioned is ±0.1mm;
3. Minimum packing amount is 1000/2000/3000 pcs per reel.

4. Moisture Resistant Packing Process



■ Reliability Test Items and Conditions

The reliability of products shall be satisfied with items listed below.
Confidence level：90%
LTPD：10%

No.	Items	Test Condition	Test Hours/Cycles	Sample Size	Ac/Re
1	Reflow Soldering	Temp. : 260℃/10sec.	6 Min.	22 PCS.	0/1
2	Thermal Shock	H : +100℃ 5min ∫ 10 sec L : -10℃ 5min	300 Cycles	22 PCS.	0/1
3	Temperature Cycle	H : +100℃ 15min ∫ 5 min L : -40℃ 15min	300 Cycles	22 PCS.	0/1
4	High Temperature/Humidity	Ta=85℃,85%RH	1000 Hrs.	22 PCS.	0/1
5	Low Temperature Storage	Ta=-40℃	1000 Hrs.	22 PCS.	0/1
6	High Temperature Storage	Ta=100℃	1000 Hrs.	22 PCS.	0/1
7	DC Operation Life	Ts=25℃, I_F =20 mA	1000 Hrs.	22 PCS.	0/1

■ Precautions for Use

1. Over-current-proof

Customer must apply resistors for protection; otherwise slight voltage shift will cause big current change (Burn out will happen).

2. Storage

2.1 Do not open moisture proof bag before the products are ready to use.

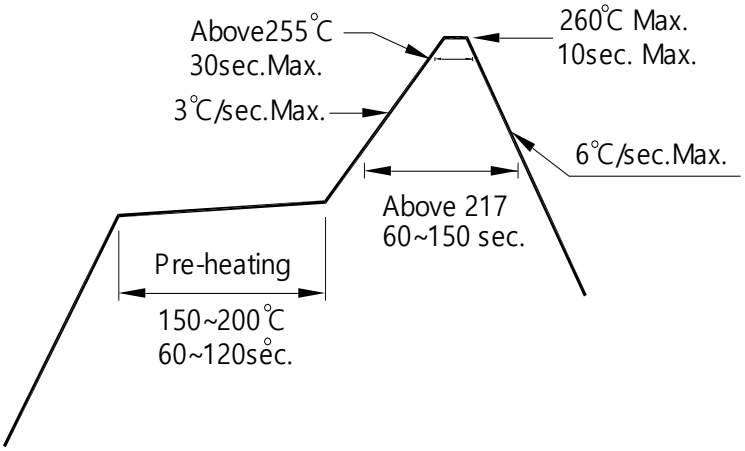
2.2 Before opening the package: The LEDs should be kept at 30℃ or less and 90%RH or less.

2.3 After opening the package: The LED's floor life is 168 Hrs under 30℃ or less and 60% RH or less. If unused LEDs remain, it should be stored in moisture proof packages.

2.4 If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions.
Baking treatment: 60±5℃ for 24 hours.

3. Soldering Condition

3.1 Pb-free solder temperature profile



3.2 Reflow soldering should not be done more than two times.

3.3 When soldering, do not put stress on the LEDs during heating.

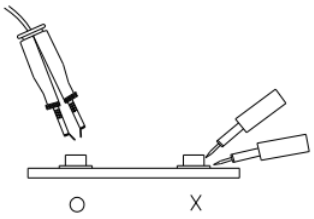
3.4 After soldering, do not warp the circuit board.

4. Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 350℃ for 3 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.

5. Repairing

Repair should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used(as below figure). It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.



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