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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-SC630G2C-A02-2T

发文日期(Issue Date): 2018/03/07 承认日期(Approved Date): _____

Checking signature of Amicc

Designer	Checker	Approver
Chen	Tommy	

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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Top view LED Type • PLCC Package

A-SC630G2C-A02-2T



Features

- · PLCC package
- Top view yellow LED
- · High luminous Intensity output
- · Wide viewing angle
- · Pb-free
- · RoHS compliant

Description

The Amicc 630 package has high efficacy, high power consumption, wide viewing angle and a compact form factor. These features make this package an ideal LED for all lighting applications.

Applications

- · General lighting
- · Decorative and Entertainment Lighting
- Indicators
- Illumination
- · Switch lights
- · Flash lights

Device Selection Guide

Chip Materials	Emitted Color	Resin Color
AlGalnP	Brilliant Yellow Green	Water Clear



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

Parameter	Symbol	Rating	Unit
Forward Current	l _F	25	mA
Peak Forward Current (Duty 1/10 @1ms)	I _{FP}	60	mA
Power Dissipation	P_d	65	mW
Operating Temperature	T_{opr}	-40 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Soldering Temperature	т	Reflow Soldering : 260 °C f	or 10 sec.
	T_{sol}	Hand Soldering : 350 °C f	or 3 sec.

Note:

The products are sensitive to static electricity and must be carefully taken when handling products.

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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	I_V	22.5		45	mcd	I _F =20mA
Peak Wavelength	$\lambda_{ m p}$		561		nm	I _F =20mA
Dominant Wavelength	$\lambda_{ m d}$	567.0		573.0	nm	I _F =20mA
Forward Voltage	V_{F}	1.75		2.55	V	I _F =20mA
Viewing Angle	2θ _{1/2}		120		deg	I _F =20mA
Reverse Current	I _R			10	μΑ	V _R =5V

Notes:

- 1. Tolerance of Luminous Intensity: ±10%.
- 2. Tolerance of Dominant Wavelength: ±1nm.
- 3. Tolerance of Forward Voltage: ±0.1V.

Bin Range of Luminous Intensity

Bin Code	Min.	Max.	Unit	Condition
AM2	22.5	28.5		
AN1	28.5	36.0	mcd	I _F =20mA
AN2	36.0	45.0	-	

Note:

Tolerance of Luminous Intensity: ±10%.

Bin Range of Dominant Wavelength

Bin Code	Min.	Max.	Unit	Condition
BG0	567.0	568.5		
BG1	568.5	570.0		1 =20mA
BG2	570.0	571.5	- nm	I _F =20mA
BG3	571.5	573.0	_	

Note:

Tolerance of Dominant Wavelength: ±0.5nm

Bin Range of Forward Voltage

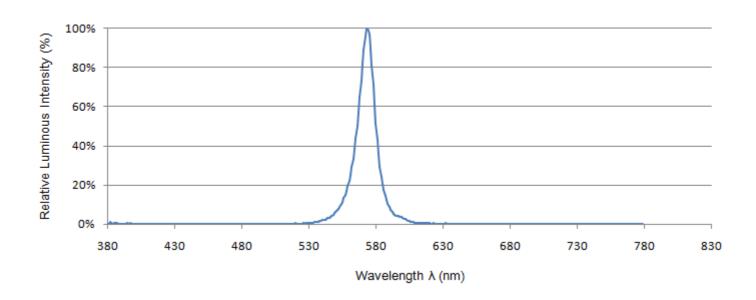
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Bin Code	Min.	Max.	Unit	Condition
0	1.75	1.95		
1	1.95	2.15	·	I _F =20mA
2	2.15	2.35	- v	I _F -20IIIA
3	2.35	2.55	_	

Note:

Tolerance of Forward Voltage: ±0.1V.



Spectrum Distribution



Typical Electro-Optical Characteristics Curves

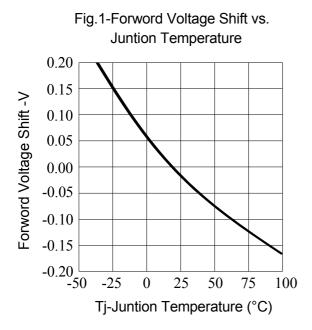


Fig.2-Relative Luminous Intensity vs. Forword Current Ts=25°C 1.6 Relative Luminous Intensity 1.4 (Normalized at 20mA) 1.2 1.0 0.8 0.6 0.4 0.2 0.0 5 10 15 20 25 30 Forward Current I_F (mA)

Typical Electro-Optical Characteristics Curves

Fig.3-Relative Luminous Intensity vs.Juntion Temperature

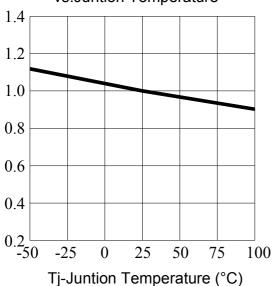


Fig.5-Max.Driving Forward Current vs.Soldering Temperture

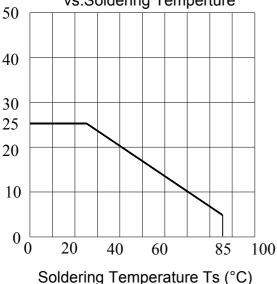


Fig.4-Forward Current vs.

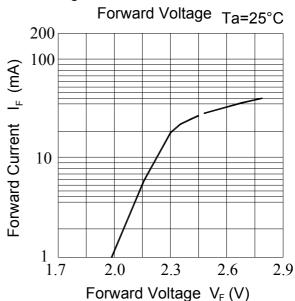
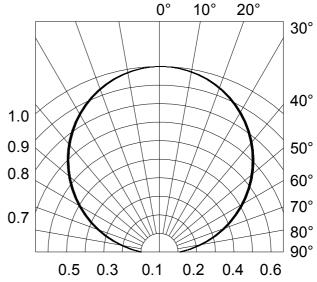
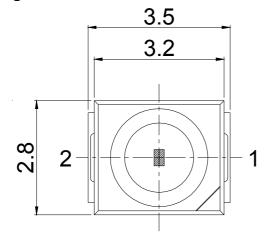


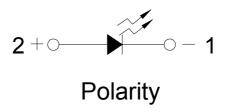
Fig.6-Radiation Diagram Ta=25°C

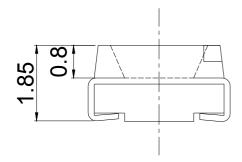


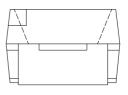
Amicc

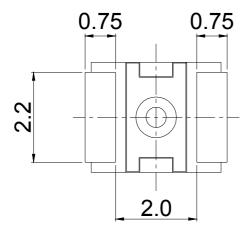
Package Dimension



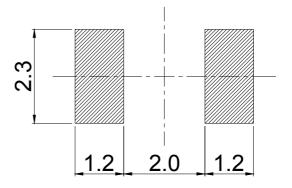








Recommended solder pad

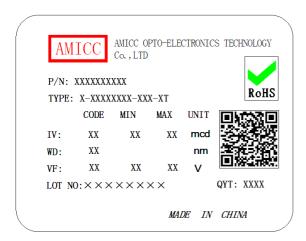


Note: Tolerance unless mentioned is ±0.1mm,Unit = mm



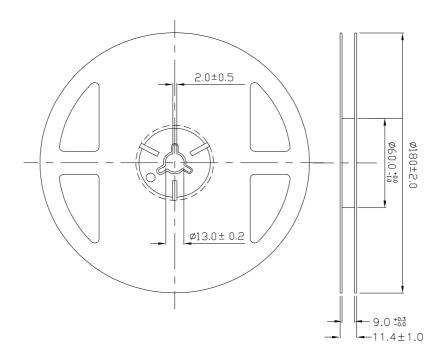
Moisture Resistant Packing Materials

Label Explanation



- · CPN: Customer's Product Number
- P/N: Product Number
- TYPE :Part NO.
- IV: Luminous Intensity Rank
- · WD: Dom. Wavelength Rank
- · VF: Forward Voltage Rank
- · LOT NO.: Lot Number
- · QTY: Packing Quantity

Reel Dimensions

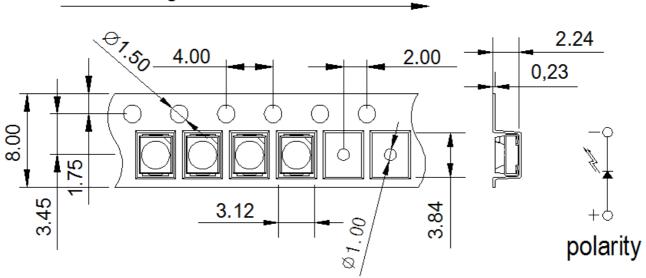


Note:

Tolerances unless mentioned ±0.1mm,Unit = mm

Carrier Tape Dimensions: Loaded Quantity 2000 pcs Per Reel

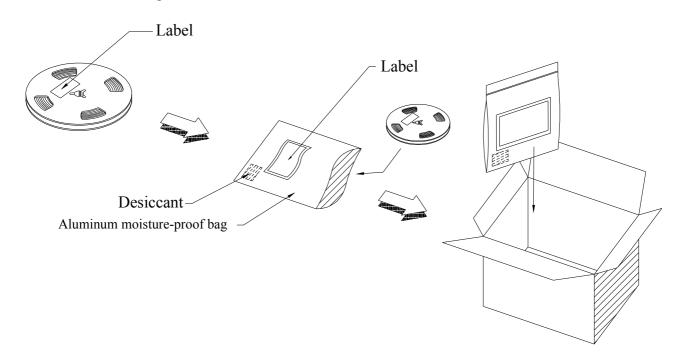
Progressive direction



Notes:

- 1. Tolerance unless mentioned is ± 0.1 mm, Unit = mm
- 2. Minimum packing amount is 1000 pcs per reel.

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°C/10sec.	6 Min.	22 PCS.	0/1
2	Thermal Shock	H : +100°C 5min ∫ 10 sec L : -10°C 5min	300 Cycles	22 PCS.	0/1
3	Temperature Cycle	H : +100°C 15min ∫ 5 min L : -40°C 15min	300 Cycles	22 PCS.	0/1
4	High Temperature/Humidity Reverse Bias	Ta=85°C,85%RH	1000 Hrs.	22 PCS.	0/1
5	Low Temperature Storage	Ta=-40°C	1000 Hrs.	22 PCS.	0/1
6	High Temperature Storage	Ta=100°C	1000 Hrs.	22 PCS.	0/1
7	DC Operation Life	Ta=25°C 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).

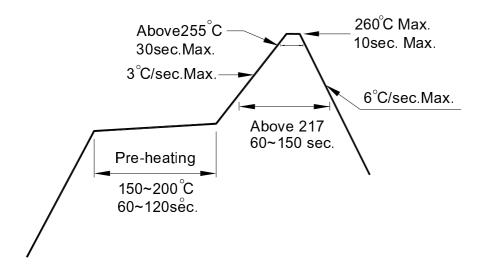
2. Storage

- 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°C or less and 90%RH or less.
- 2.3 After opening the package: The LED's floor life is 168 Hrs under 30°C 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°C 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°C 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.