

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-SC633GHC-H01-2T

发文日期(Issue Date): 2019/10/21 承认日期(Approved Date):_____

Checking signature of Amicc

Designer	Checker	Approver
Mars	Tommy	Solarliu

Approval signature of customer

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Designer	Checker	Approver

江苏欧密格光电科技股份有限公司 Jiangsu Amicc Opto-Electronics Technology Co.,Ltd. 地址:江苏省常州市武进区武南中路 98 号

Add: 98.Wu Nan Road, Wujin, Changzhou city, Jiangsu Province

TEL:0086-519-89806999 FAX:0086-519-86523668

Amicc

Top view LED Type • PLCC Package

A-SC633GHC-H01-2T



Description

The Amicc 633 package has high efficacy, low power consumption, wide viewing angle and a compact form factor. 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
- · JEDEC MSL 3

Applications

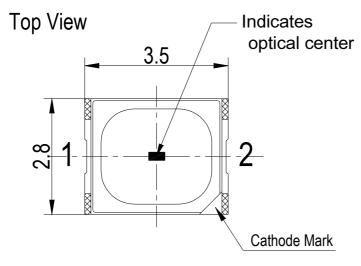
- · General lighting
- · Decorative and Entertainment Lighting
- · Indicators
- Illumination
- · Switch lights

Device Selection Guide

Chip Materials	Emitted Color	Resin Color
InGaN	Green	Water Clear

Amicc

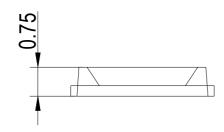
■ Package Dimensions



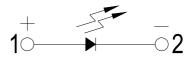
Side View



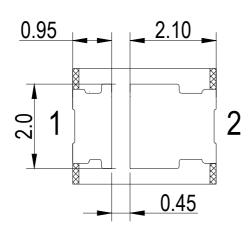
Side View



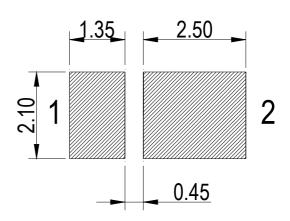
Polarity



Bottom View



Recommended solder pad



Note:

Tolerance unless mentioned is ± 0.1 mm, Unit = mm.



■ Absolute Maximum Ratings (T_{Soldering}=25°C)

Parameter	Symbol	Rating	Unit
Forward Current	l _F	60	mA
Peak Forward Current (Duty 1/10 @1ms)	IFP	120	mA
Power Dissipation	Pd	200	mW
Operating Temperature	T_{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Soldering Temperature	т.	Reflow Soldering : 260 °C for 10 sec.	
Soluting remperature	T_{sol}	Hand Soldering : 350 °C	for 3 sec.

Note:

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

■ Electro-Optical Characteristics (T_{Soldering}=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
T didiliotoi	- Cy		. , p.	max.	010	Condition
Luminous Flux	lv	20	24	33	lm	I _F =60mA
Peak Wavelength	$\lambda_{ m p}$		520		nm	I _F =60mA
Dominant Wavelength	$\lambda_{ m d}$	516		525	nm	I _F =60mA
Forward Voltage	V _F	2.3		3.2	V	I _F =60mA
Viewing Angle	201/2		120		deg	I _F =60mA
Reverse Current	l _R			10	μΑ	V _R =5V

Notes:

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



■ Bin Range of Luminous Flux

Bin Code	Min.	Max.	Unit	Condition
L13	20	23		
L14	23	27	lm	I _F =60mA
L15	27	33		

Notes:

Tolerance of Luminous Flux: ±10%.

■ Bin Range of Forward Voltage

Bin Code	Min.	Max.	Unit	Condition
В6	516	519		
В7	519	522	nm	I _F =60mA
B8	522	525		

Note:

Tolerance of Dominant Wavelength: ±1nm

■ Bin Range of Chromaticity Coordinates

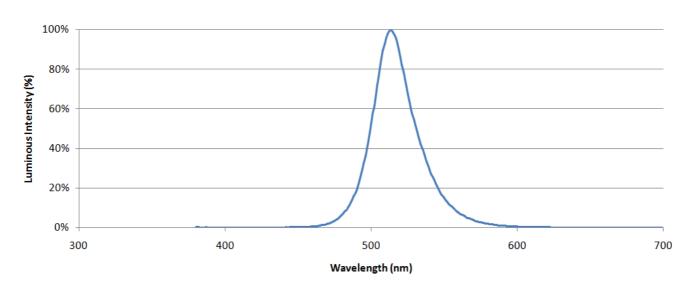
Bin Code	Min.	Max.	Unit	Condition
32	2.4	2.6		
34	2.6	2.8	_	J. 00A
36	2.8	3.0	V	I⊧=60mA
38	3.0	3.2	_	

Note:

Tolerance of Forward Voltage: ±0.1V.



■ Spectrum Distribution



■ Typical Electro-Optical Characteristics Curves

Fig.1-Forword Voltage Shift vs.

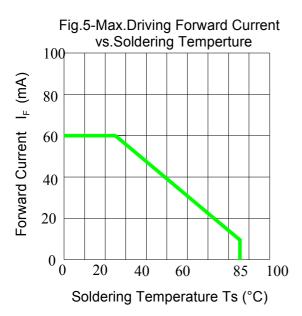
Juntion Temperature 0.20 0.15 Forword Voltage Shift -V 0.10 0.05 0.00 -0.05-0.10 -0.15-0.20 -50 -25 25 50 0 75 100 Tj-Juntion Temperature (°C)

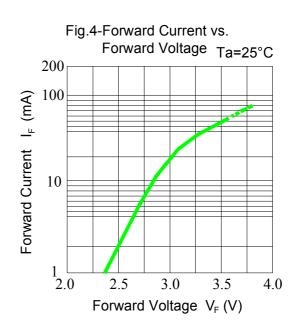
Fig.2-Relative Luminous Intensity vs. Forword Current Ts=25°C 1.6 Relative Luminous Intensity 1.4 1.2 1.0 0.8 0.6 0.4 0.2 0.0^{10}_{0} 20 40 60 80 120 100 Forward Current I_F (mA)

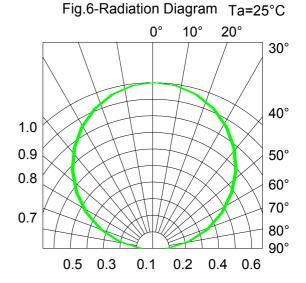


Typical Electro-Optical Characteristics Curves

Fig.3-Relative Luminous Intensity vs.Juntion Temperature 1.4 Relative luminous intensity (%) 1.2 1.0 0.8 0.6 0.4 0.2 ______ 25 -25 50 75 100 Tj-Juntion Temperature (°C)



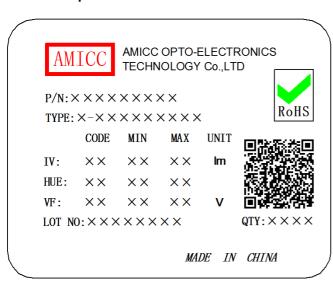






■ Moisture Resistant Packing Materials

1. Label Explanation



·CPN: Customer's Product Number

·P/N: Product Number

·TYPE: Part NO.

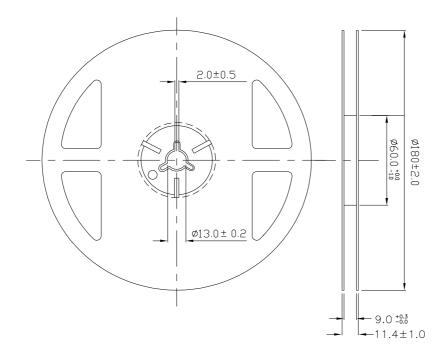
·IV: Luminous Intensity Rank

·HUE: Chromaticity Coordinates Rank

·VF: Forward Voltage Rank

·LOT No: Lot Number ·QTY: Packing Quantity

2. Reel Dimensions

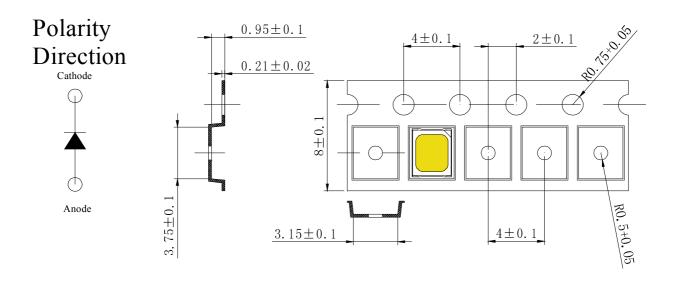


Note:

Tolerances unless mentioned ±0.1mm, Unit = mm.



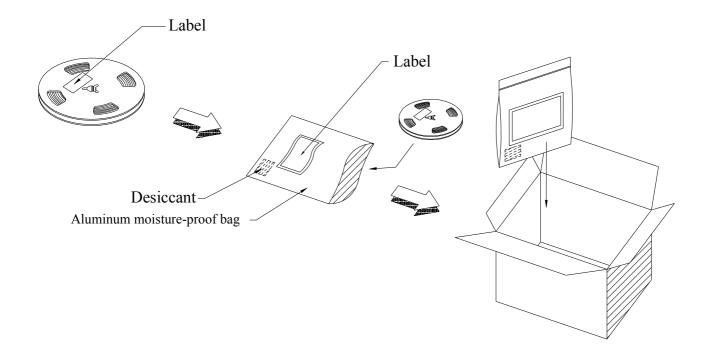
3. Carrier Tape Dimensions: Loaded Quantity 2000 pcs Per Reel



Notes:

- 1. Tolerance unless mentioned is ±0.1mm; Unit = mm.
- 2. Minimum packing amount is 1000 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°C/10sec.	6 Min.	22 PCS.	0/1
2	Thermal Shock	H:+100°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 = 60 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).

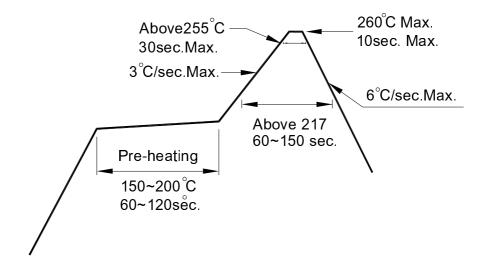
2. Storage

- 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.

