

TECHNICAL DATASHEET

产品名称(P. N.): SMD 1206 LED (Cool White)

型 号 (Part NO.): AL-S1206CWY-LPI5-TFM

客户料号 (C.Part NO.): _____

版 本 (Revision): 1

发出日期 (Issue Date): 2020-1-3

认定日期 (Approval Date): _____

RECEIVED			
CUSTOMER	DESIGNER	CHECKER	APPROVER

APPROVER	CHECKER	DESIGNER

REVISION	DESCRIPTION	RELEASE DATE

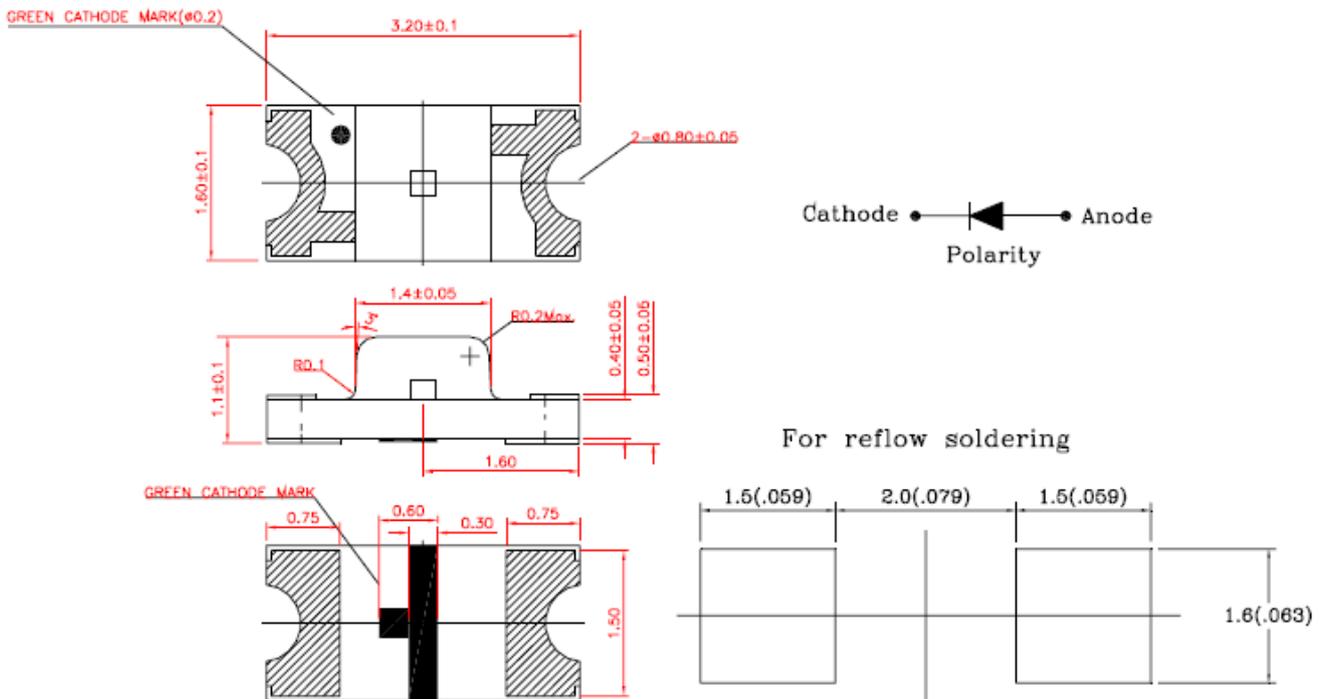
■ Typical Applications

- Automotive: Dashboards, stop lamps, turn signals.
- Backlighting: LCDs, Key pads advertising.
- Status indicators: Consumer & industrial electronics.
- General use.

■ Features :

- Chip Material: InGaN
- Lens Color: Yellow Diffused
- Emitted Color: White
- 3.2x1.6x1.1mm (1206) standard package.
- Suitable for all SMT assembly methods.
- Compatible with infrared and vapor phase reflow solder process.
- Compatible with automatic placement equipment.

■ Package Dimensions:



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (0.004') unless otherwise specified.

■ Absolute Maximum Ratings at Ta=25°C:

Parameter	Symbol	Maximum	Unit
Power Dissipation	Pd	72	mW
Peak Forward Current (Duty 1/10 @1KHz)	I _{FP}	100	mA
Forward Current	I _F	20	mA
Electrostatic Discharge(HBM)	ESD	2000	V
Reverse Voltage	V _R	5	V
Operating Temperature Range	Topr	-25°C to + 80°C	
Storage Temperature Range	Tstg	-30°C to + 85°C	
Lead Soldering Temperature [2.0mm from body]	Tsol	Preheating: 140°C~160°C±5°C, within 2 minutes. Operation heating:260°C(Max) within 10 seconds.(Max) Gradual Cooling (Avoid quenching).	

■ Electrical/Optical Characteristics at Ta=25°C:

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	I _v	I _F =5mA	63	120	—	mcd
Chromaticity	X	I _F =5mA	—	0.26	—	
Coordinates	Y		—	0.25	—	
Forward Voltage	V _F	I _F =5mA	—	2.6	3.2	V
Viewing Angle	2θ _{1/2}	I _F =5mA	—	120	—	deg
Reverse Current	I _R	V _R =5V	—	—	10	uA

Notes:

1. Tolerance of Luminous Intensity ±15%
2. Tolerance of Forward Voltage ±0.1V

■ Precautions in Use:**Storage**

Recommend storage environment

Temperature: 5°C~30°C (41°F~86°F)

Humidity: 60% RH Max.

Use within 7 days after opening of sealed vapor/ESD barrier bags.

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.

Fold the opened bag firmly and keep in dry environment.

Soldering**Reflow Soldering**

Recommend use of upper and lower heater type reflow furnace.

260°C Max for up to 10 seconds, one time only.

Pre-heat is 150°C Max for up to 2 minutes Max.

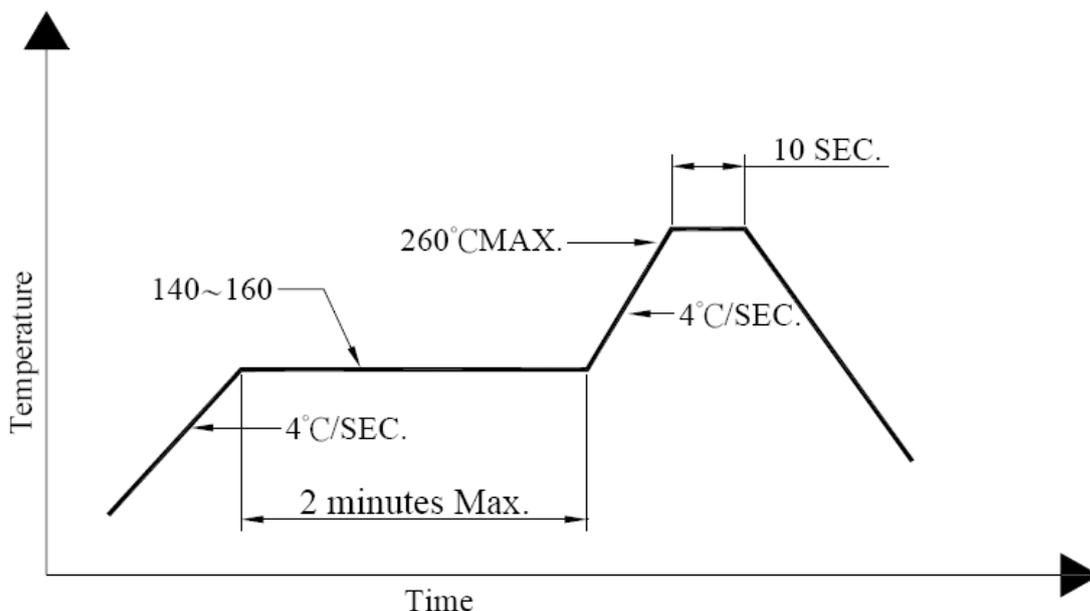
In case of screen-printing, keep metal mask thickness between 0.2mm and 0.3mm.

Cleaning

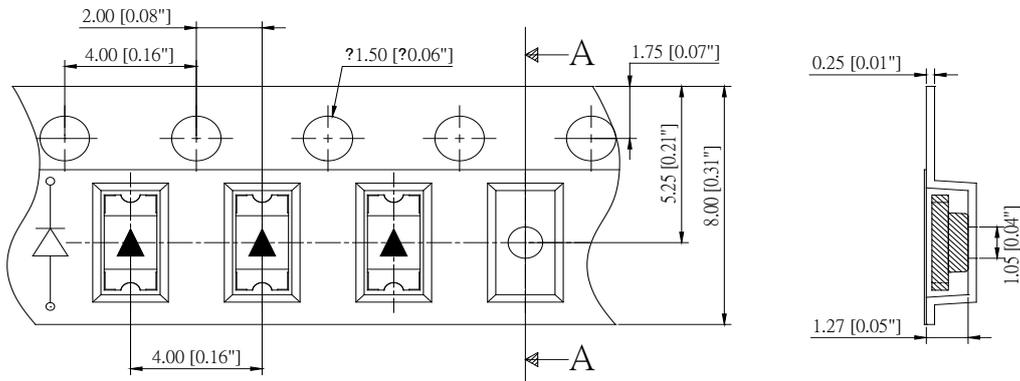
Surface condition of this device may change when organic solvents such as trichloroethylene or acetone were applied.

Avoid using organic solvent.

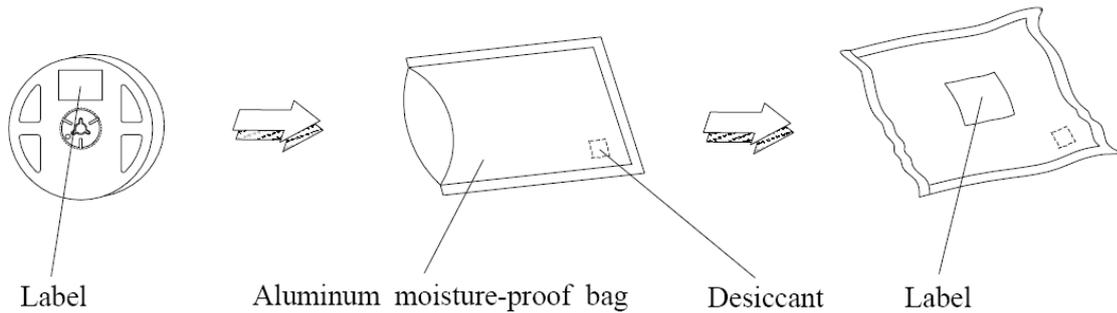
Recommend ultrasonic method 300W Max.

Reflow Soldering Temp/Time:

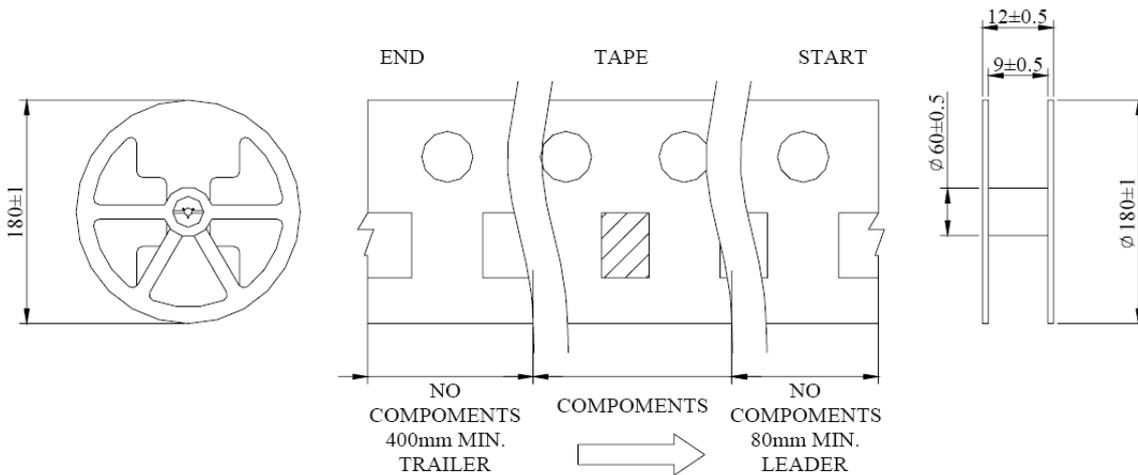
■ Carrier Tape Dimensions: Loaded quantity 3000 PCS per reel



■ Moisture Resistant Packaging



■ Reel Dimensions



Notes:

1. All dimensions are in mm, tolerance is ± 2.0 mm unless otherwise noted.
2. Specifications are subject to change without notice.