

承 認 書 Specification For Approval

Customer: (客戶)							
De	Description:(產品描述) SMD1206灯珠红光						
Part number:(產品型號) TJ-S3216CL9T5ALC2R-A5							
	Date: (日期)						
Approved By: (客戶承認) Prepared By:(我司承認)							
11 0 p	Approval	Check	Design	Sales			
	核准	審核	製作	業務			

Customer Service Hotline: 400-676-8616

TEL: 0769-8662 5999 0769-8200 2226 FAX: 0769-8200 2227

E-MIAL : dg@togialed.com WEB: www.togialed.com

Features

3.2m mx 1.6mm SMT LED, 0.8mm thickness

Low power consumption

Wide view angle

Package: 3000pcs/reel

RoHS Compliant

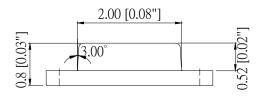
Applications

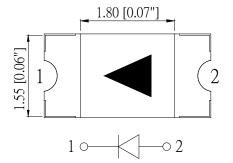
Ideal for back light and indicator

Various colors and lens types available

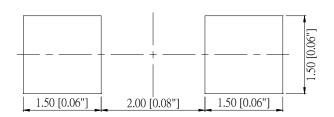
Package outlinges

3.20 [0.13"]





Recommend Pad Layout





Part No.	Emitted color	Dice	Lens color
TJ-S3216CL9T5ALC2R-A5	Red	AlGaInP	Water transparent

Notes:

- 1. All dimensions are in millimeters (inches);
- 2. Tolerances are ± 0.1 mm (0.004inch) unless otherwise noted.

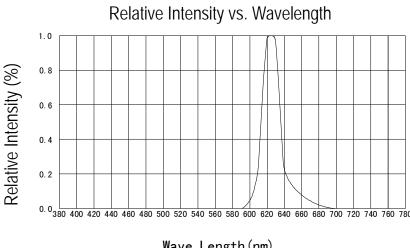
Absolute maximum ratings (TA=25°C)

Parameter	Symbol	Value	Unit
Forward current	If	30	mA
Reverse voltage	Vr	5	V
Power dissipation	Pd	72	mW
Operating temperature	Тор	-40 ~+80	$^{\circ}$
Storage temperature	Tstg	-40 ~+85	$^{\circ}$
Peak pulsing current (1/8 duty f=1kHz)	Ifp	125	mA

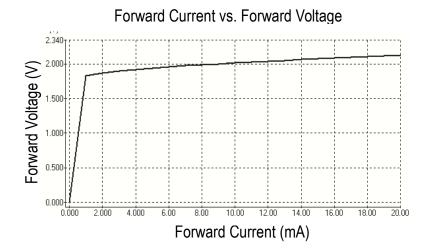
Electro-optical characteristics (TA=25 °C)

Parameter	Test Condition	Symbol	Value			Unit
i arameter			Min	Тур	Max	Offic
Wavelength at peak emission	lf=20mA	λр		635		nm
Spectral half bandwidth	If=20mA	Δλ		18		nm
Dominant wavelength	lf=20mA	λ d	620	ı	630	nm
Forward voltage	If=20mA	Vf	1.8	1	2.4	V
Luminous intensity	If=20mA	lv	63	1	200	mcd
Viewing angle at 50% lv	lf=10mA	2 θ 1/2		120		Deg
Reverse current	Vr=5V	lr			10	μΑ

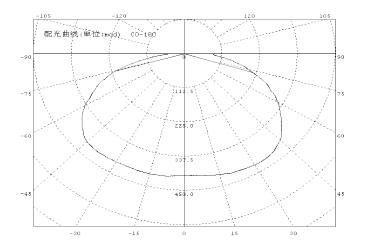
Optical characteristic curves



Wave Length (nm)

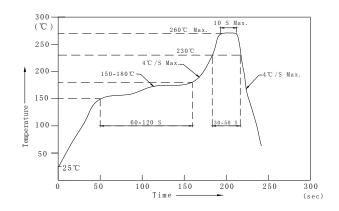


Directive Characteristics



Reflow Profile

■ Reflow Temp/Time



Notes:

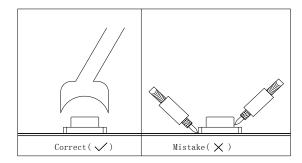
- 1.We recommend the reflow temperature $245^{\circ}\text{C}(\pm 5^{\circ}\text{C})$.the maximum soldering temperature should be limited to 260°C .
- 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
- 3. Number of reflow process shall be 2 times or less.

■Soldering iron

Basic spec is \leq 5sec when 260 °C. If temperature is higher, time should be shorter (+10 °C \rightarrow -1sec).Power dissipation of iron should be smaller than 20W, and temperatures should be controllable .Surface temperature of the device should be under 230 °C.

■Rework

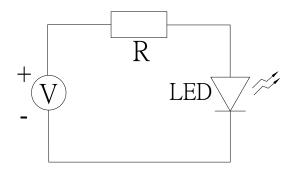
- 1.Customer must finish rework within 5 sec under 260°C.
- 2. The head of iron can not touch copper foil
- 3. Twin-head type is preferred.



■ Avoid rubbing or scraping the resin by any object, during high temperature, for example reflow solder etc.

Test circuit and handling precautions

■ Test circuit



■ Handling precautions

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 It is recommended to store the products in the following conditions:

Humidity: 60% R.H. Max.

Temperature : 5° C~30°C(41°F~86°F)

2.2 Shelf life in sealed bag: 12 month at <5℃~30℃ and <30% R.H. after the package is Opened, the products should be used within a week or they should be keeping to stored at ≤20 R.H. with zip-lock sealed.</p>

3. Baking

It is recommended to baking before soldering when the pack is unsealed after 72hrs. The Conditions are as followings:

3.1 60 ± 3 °C x(12~24hrs) and <5%RH, taped reel type

3.2 $100\pm3^{\circ}$ C x(45min~1hr), bulk type

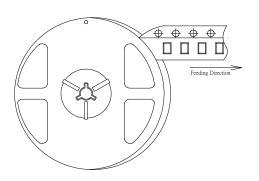
3.3 130 \pm 3°C x(15~30min), bulk type

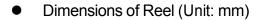
Test items and results of reliability

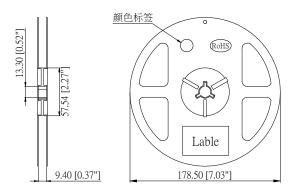
Туре	Test Item	Test Conditions	Note	Number of Damaged
	Temperature Cycle	-20°C 30min ↑ ↓ 80°C 30min	100 cycle	0/22
	Thermal Shock	-20℃ 15min ↑↓ 80℃ 15min	100 cycle	0/22
mental ence	High Humidity Heat Cycle 30°C⇔ 65°C 90%RH 24hrs/1cycle		10 cycle	0/22
Environmental Sequence	High Temperature Storage	¯emperature Storage Ta=80℃		0/22
	Humidity Heat Storage	Ta=60℃ RH=90%	1000 hrs	0/22
	Low Temperature Storage	Ta=-30°C	1000 hrs	0/22
Operation Sequence	Life Test	Ta=25℃ IF=20mA	1000 hrs	0/22
	High Humidity Heat Life Test	60℃ RH=90% IF=10mA	500 hrs	0/22
	Low Temperature Life Test	Ta=-20℃ IF=20mA	1000 hrs	0/22

3216 Series SMD Chip LED Lamps Packaging Specifications

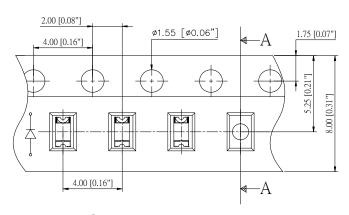
Feeding Direction

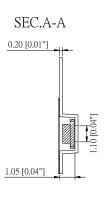




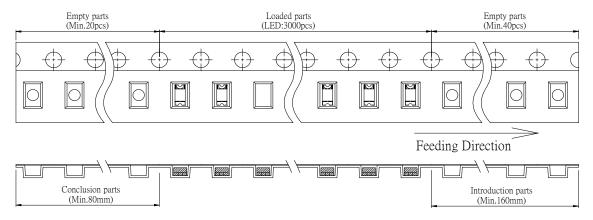


Dimensions of Tape (Unit: mm)





Arrangement of Tape

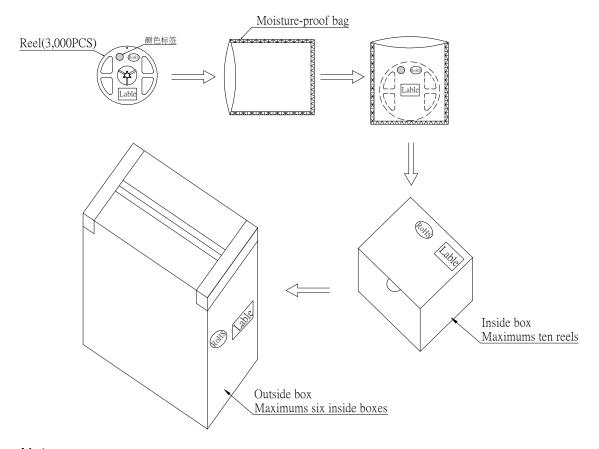


Notes:

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

3216 Series SMD Chip LED Lamps Packaging Specifications

Packaging specifications



Notes:

Reeled products (numbers of products are 3,000pcs) packed in a seal off moisture-proof bag along with a desiccant one by one, Seven moisture-proof bag of maximums (total maximum number of products are 30,000pcs) packed in an inside box (about size: 260x 220x 130mm) and four inside boxes of maximums are put in the outside box (about size: 450mm x 260mm x 400mm) Together with buffer material, and it is packed. (Part No., Lot No., quantity should appear on the label on the moisture-proof bag, part No. And quantity should appear on the label on the cardboard box.) The number of the loading steps of outside box (cardboard box) has it to three steps.

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