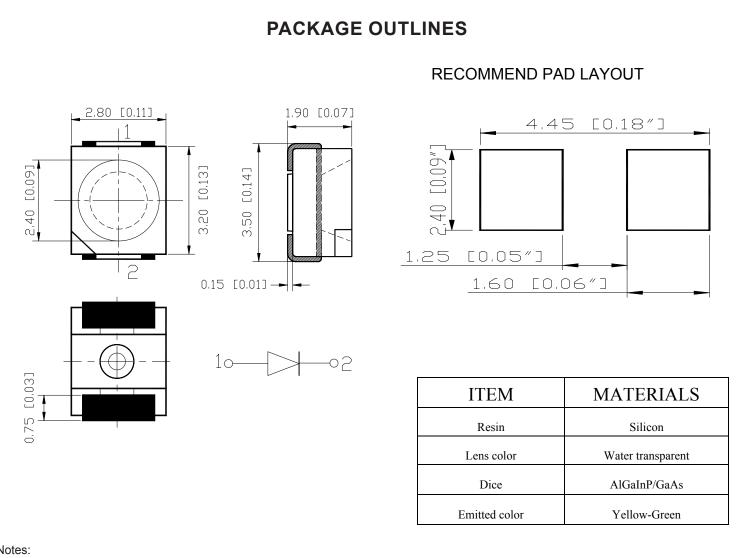


#### **SPECIFICATION**



Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is ± 0.25mm (0.01") unless otherwised noted.

3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSP1311G21C	InGaAIP	Green	Water Clear	120°



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CSP1311G21C



### **ABSOLUTE MAXIMUM RATINGS**

#### Parameter Symbol Max Rating Unit Forward Current IF 30 mA 5 Reverse Current @ 5V IR μA 75 **Power Dissipation** Pd mW -40~+85 °C **Operating Temperature Range** Тор Storage Temperature Range TSTG -40~+85 °C 125

IFP

TSOL

# **OPTICAL-ELECTRICAL CHARACTERISTICS**

Peak Pulsing Current (1/10 duty f = 10KHz)

Value Parameter Test Condition Unit Symbol Min Тур Max Luminous Intensity Iv IF = 20mA40 100 \_ mcd **Forward Voltage** VF IF = 20mA2.0 2.5 V VR = 5VReverse Leakage Current IR 10 \_ \_ μA Viewing Angle at 50% Iv  $2\theta 1/2$ IF = 10mA120 \_ Deg \_ Peak Wavelength IF = 20mAλP 572 \_ \_ nm **Dominant Wavelength** IF = 20mA570 λD 565 576 nm

\*Tolerance of viewing angle: -10 / +5 deg.

Soldering Temperature



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(TA=25°C)

# (TA=25°C)

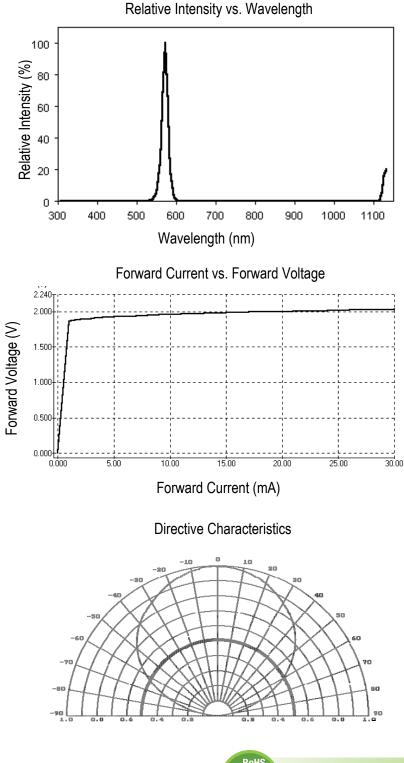


mΑ

Max 260°C for 5 sec Max



# **OPTICAL CHARACTERISTIC CURVES**





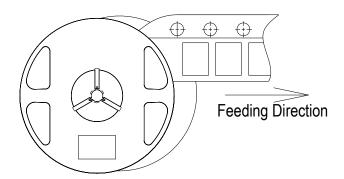
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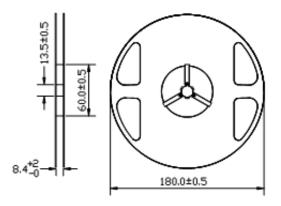


## PACKAGING SPECIFICATION

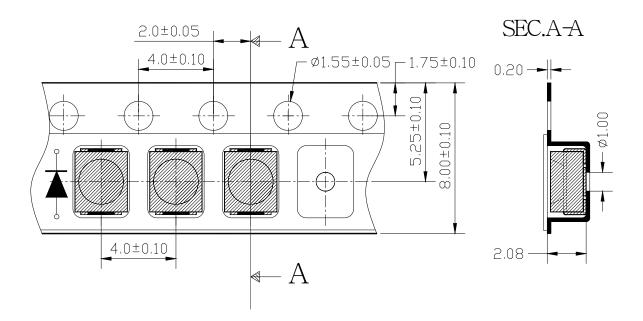
• Feeding Direction

• Dimensions of Reel (Unit: mm)





#### • Dimensions of Tape (Unit: mm)



#### Notes:

- 1. Empty component pockets are sealed with top cover tape
- 2. The maximum number of missing lamps is two.
- 3. 2000 pcs/reel

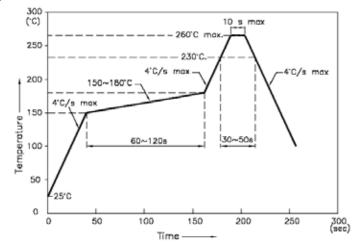


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# SOLDERING CONDITIONS

#### **REFLOW PROFILE**



#### Notes:

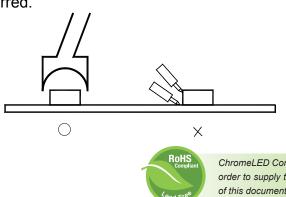
- 1. We recommend the reflow temperature 245°C (±5°C).the maximum soldering temperature should be limited to 260°C.
- 2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
- 3. Number of reflow process shall be 2 times or less.

#### Soldering iron

- Basic spec is ≤ 5sec when 260°C. If temperature is higher, time should be shorter
- (+10°C → -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 cannot touch copper foil
- 3. Twin-head type is preferred.



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