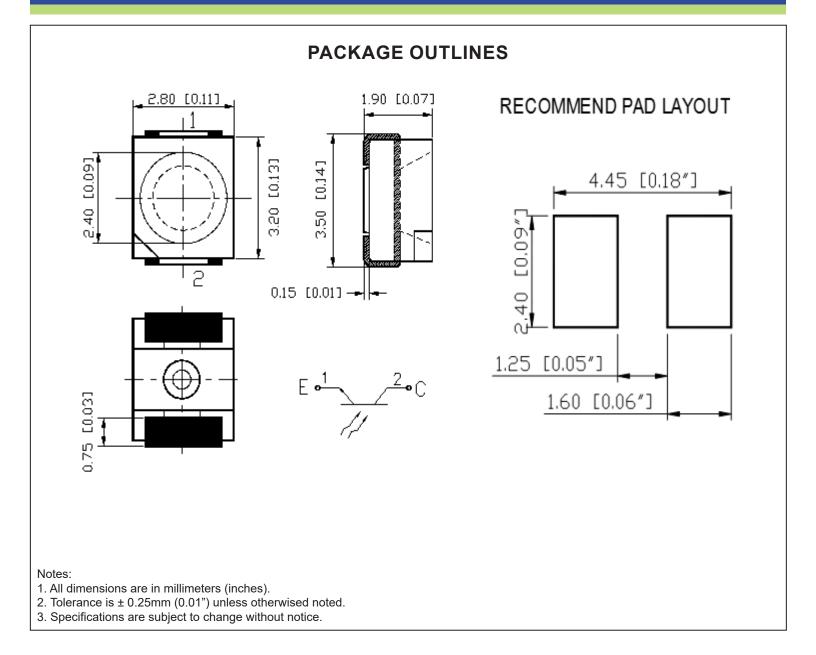


## SPECIFICATION

# CSP1311PT2C



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSP1311PT2C	Silicon	Phototransistor	Water Clear	120°



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com



#### **ABSOLUTE MAXIMUM RATINGS**

Parameter	Symbol	Max Rating	Unit		
Power Dissipation	PD	100	mW		
Emitter-Collector Breakdown Voltage	BVECO	5	V		
Collector-Emitter Sustaining Voltage	Vce	30	V		
Operating Temperature Range	Topr	-40~+80	°C		
Storage Temperature Range	Тѕтс	-40~+85	°C		
IFP = Pulse Width $\leq$ 10 ms, Duty Ratio $\leq$ 1/10. Soldering Condition: 260 °C/ 5sec					

## **OPTICAL-ELECTRICAL CHARACTERISTICS**

Value Parameter Symbol **Test Condition** Unit Min Тур Max Collector-Emitter Breakdown Voltage VCE IC = 100 uA IB=0 30 V \_ \_ Ic = 2mA**Collector-Emitter Saturation Voltage** VCE(SAT) 0.2 0.4 V -IB=100UA ВУсво 5 7 Collector Based Breakdown Voltage Ісво=100 иА υS \_ **Dark Current** VCE=20V 0.4 D uA \_ Wavelenght of Peak Senstivity 940 λP \_ \_ nm

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



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com



(TA=25°C)

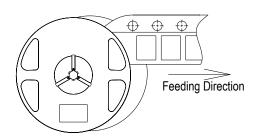
# (TA=25°C)



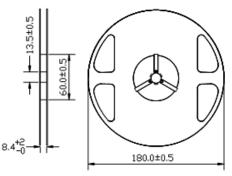


## PACKAGING SPECIFICATION

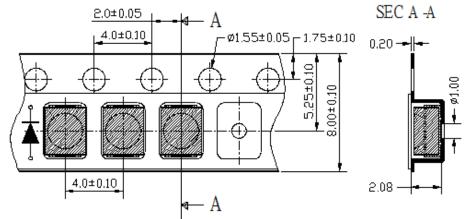
• Feeding Direction



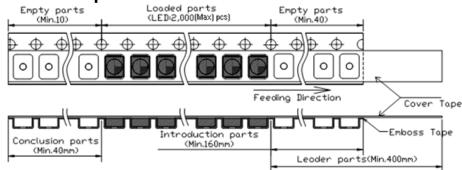
• Dimensions of Reel



Dimensions of Tape



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
- 4. 2,000(max)pcs/Reel

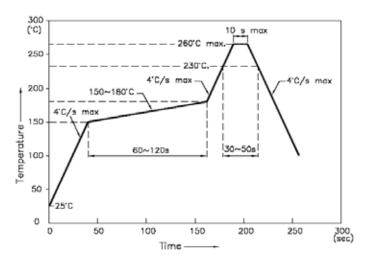


ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com



### **SOLDERING CONDITIONS**

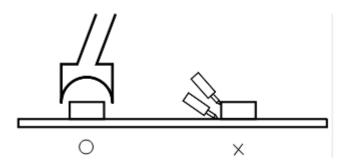
#### **REFLOW PROFILE**



- 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  $\leq$  5 sec when 260 °C. If the temperature is higher, time should be shorter (+10 °C  $\rightarrow$  -1 sec). Power dissipation of iron should be smaller than 20W and temperature 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.





ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com