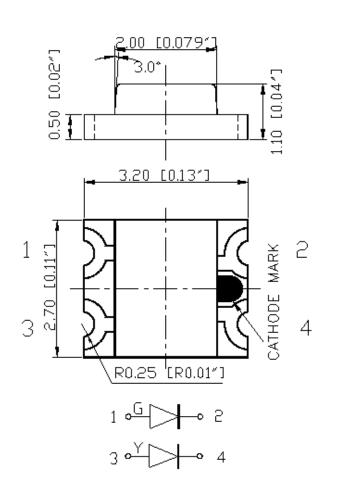
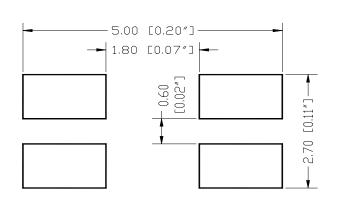


SPECIFICATIONS CS121Y2G2C

OUTLINES DIMENSIONS



RECOMMEND PAD LAYOUT



ITEM	MATERIALS			
Resin (mold)	Ероху			
Lens Color	Water Transparent			
Dice	Yellow	AlGaInP/GaAs		
	Green	AlGaInP/GaAs		

Notes:

- 1. All Dimensions are in millimeters (inches).
- 2. Tolerance is \pm 0.25mm (0.01") unless otherwise noted.
- 3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle	
CS121Y2G2C	InGaAIP/InGaAIP	Yellow/Green	Water Clear	140°	





ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Color	Max Rating	Unit	
Power Discipation	PD	Yellow	75	mW	
Power Dissipation	PD	Green	75		
Pulse Current Forward Current	lFP	Yellow	125	mA	
Fulse Current Forward Current		Green	125		
Continuous Forward Current	lF	Yellow	30	mΛ	
Continuous Forward Current		Green	30	mA	
Reverse Voltage	VR	5		V	
Operating Temperature Range	Topr	-40~+85		°C	
Storage Temperature Range	Тѕтс	-40~+85		°C	
IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 5				°C/ 5sec	

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

Parameter	Symbol	Test Condi- tion	Color	Value			Lloit
				Min	Тур	Max	Unit
Luminous Intonsity	lv	I _F = 20mA	Yellow	100	200	-	mcd
Luminous Intensity			Green	25	50	-	
Forward Voltage	VF	I _F = 20mA	Yellow	ı	2.0	2.5	V
Forward Voltage			Green	-	2.0	2.5	
Poverse Leakage Current	lR	V _R = 5V	Yellow	-	-	10	μA
Reverse Leakage Current			Green	-	-	10	
Viewing Angle	201/2	I _F = 20mA	Yellow	-	140	-	deg
Viewing Angle			Green	-	140	-	
Dook Movelength	λР	I _F = 20mA	Yellow	-	592	-	nm
Peak Wavelength			Green	-	572	-	
Dominant Wayalangth	λD	I _F = 20mA	Yellow	-	590	-	nm
Dominant Wavelength			Green	-	570	-	

^{*}Tolerance of viewing angle: -10 / +5 deg.





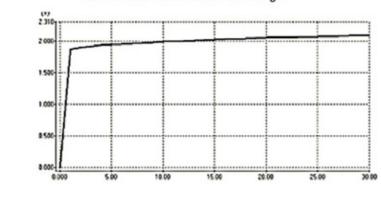
OPTICAL CHARACTERISTIC CURVES (YELLOW)

Forward Voltage (V)

Relative Intensity vs. Wavelength 100 Relative Intensity (%) 80 60 40 20 300 600 700 900 1000 400 500 800 1100

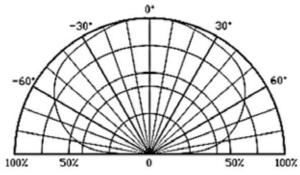
Forward Current vs. Forward Voltage

Wavelength (nm)



Forward Current (mA)

Directive Characteristics

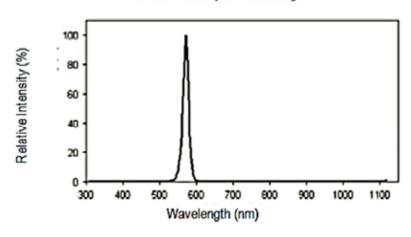


RoHS Compliant

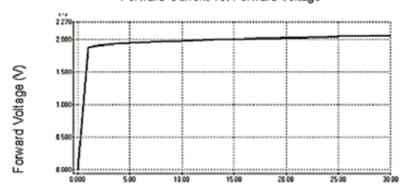


OPTICAL CHARACTERISTIC CURVES (GREEN)

Relative Intensity vs. Wavelength

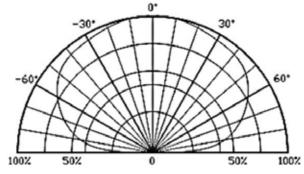


Forward Current vs. Forward Voltage



Forward Current (mA)

Directive Characteristics

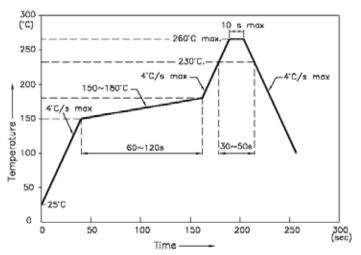


RoHS Compliant



SOLDERING CONDITIONS – LAMP TYPE LED

REFLOW PROFILE

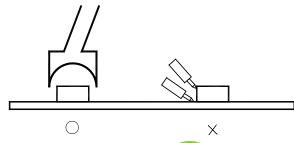


NOTES:

- 1. We recommend the reflow temperature 245°C (±5°C). The maximum soldering temperature should be limited to 260°C.
- 2. Do not 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 → -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.

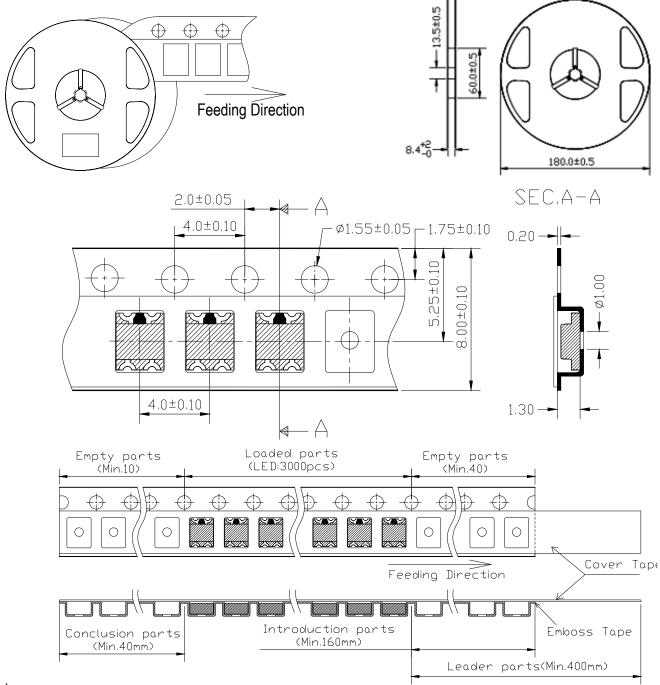




PACKAGING SPECIFICATIONS

• Feeding Direction

Dimensions of Reel (Unit: mm)



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. 3,000pcs/Reel

