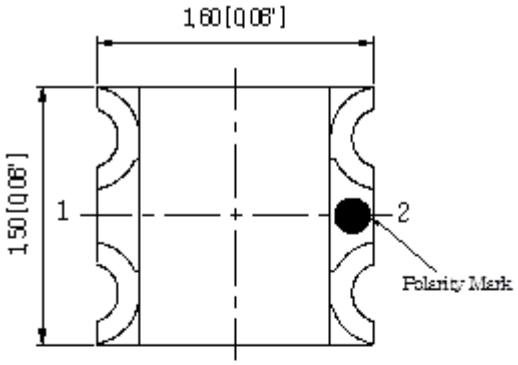
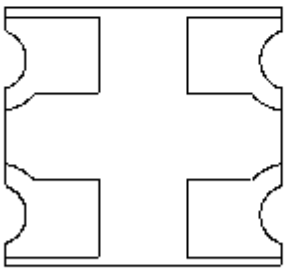
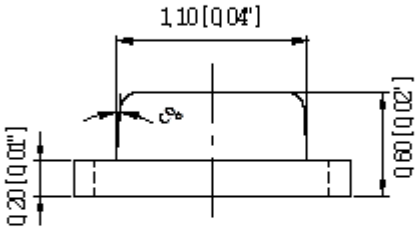
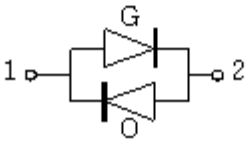
SPECIFICATIONS CS66R2G2C-BP

OUTLINES DIMENSIONS

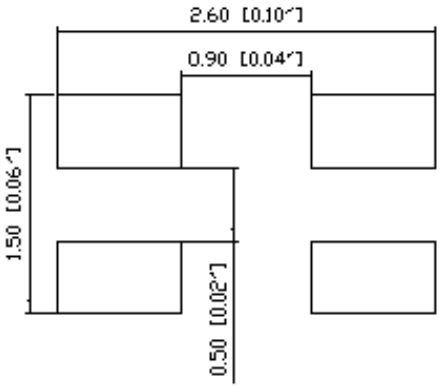








RECOMMENDED PAY LAYOUT



Notes:
1. All Dimensions are in millimeters (inches).
2. Tolerance is ± 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
CS66R2G2C-BP	InGaAlP/InGaN	Red/Green	Water Clear	130°

RoHS Compliant Lead Free

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ABSOLUTE MAXIMUM RATINGS (TA=25°C)

Parameter	Symbol	Color	Max Rating	Unit
Power Dissipation	P_D	Red	75	mW
		Green	78	
Pulse Current Forward Current	I_{FP}	Red	125	mA
		Green	125	
Continuous Forward Current	I_F	Red	30	mA
		Green		
Reverse Voltage	V_R	5		V
Operating Temperature Range	T_{OPR}	-40~+80		°C
Storage Temperature Range	T_{STG}	-40~+85		°C
I_{FP} = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 5sec				

OPTICAL-ELECTRICAL CHARACTERISTICS (TA=25°C)

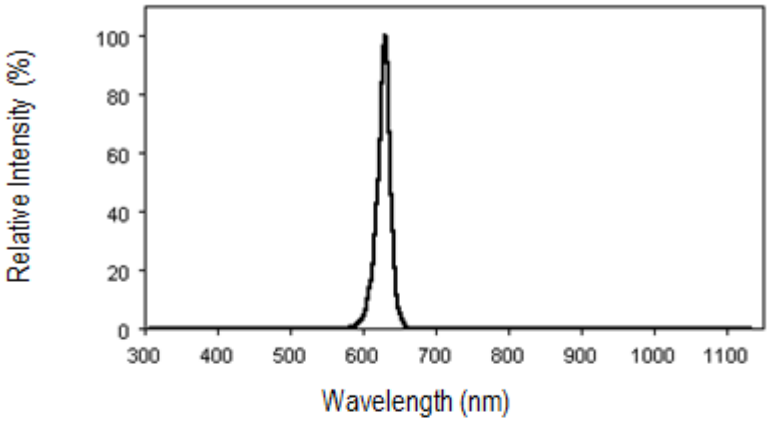
Parameter	Symbol	Test Condition	Color	Value			Unit
				Min	Typ	Max	
Luminous Intensity	I_V	I_F = 20mA	Red	80	150	-	mcd
			Green	25	35	-	
Forward Voltage	V_F	I_F = 20mA	Red	-	2.0	2.5	V
			Green	-	2.2	2.5	
Reverse Leakage Current	I_R	V_R = 5V	Red	-	-	10	μA
			Green	-	-	10	
Viewing Angle	2θ1/2	I_F = 20mA	Red	-	130	-	deg
			Green	-	130	-	
Dominant Wavelength	λ_D	I_F = 20mA	Red	-	630	-	nm
			Green	-	573	-	

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

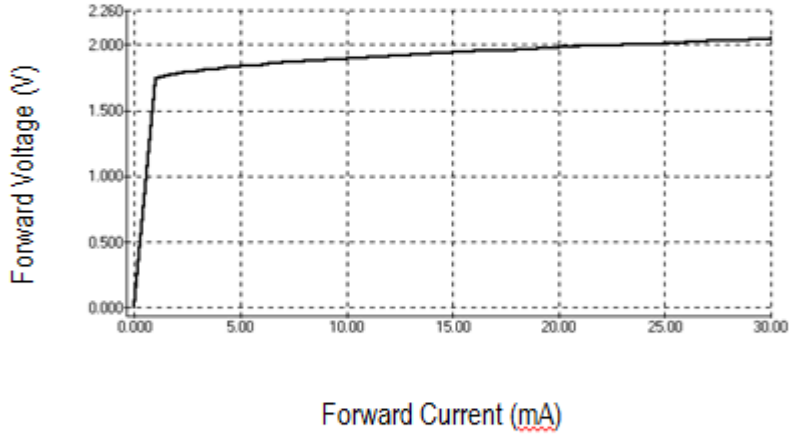
RoHS Compliant Lead Free

OPTICAL CHARACTERISTIC CURVES (RED)

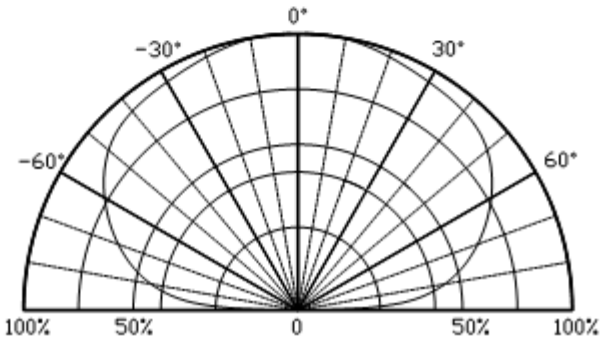
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage



Directive Characteristics



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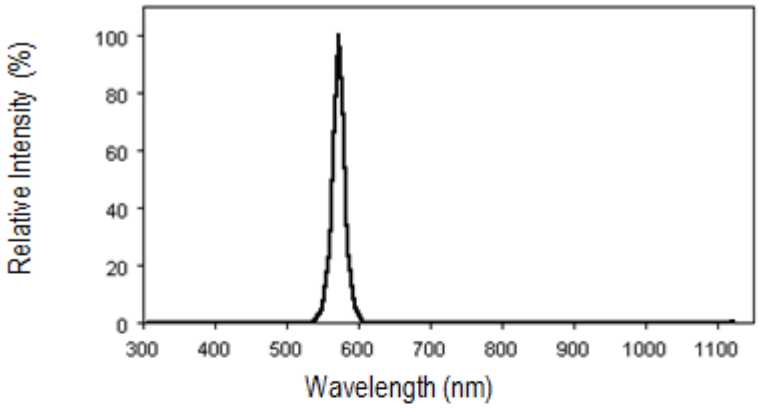
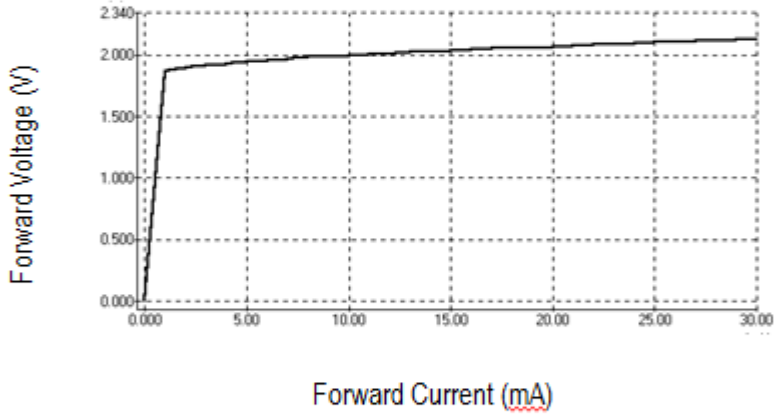
OPTICAL CHARACTERISTIC CURVES (GREEN)

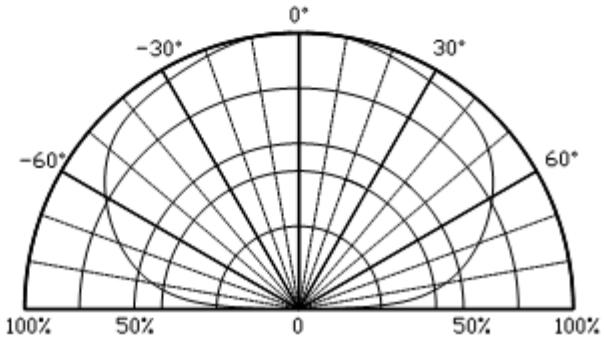
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage



Directive Characteristics



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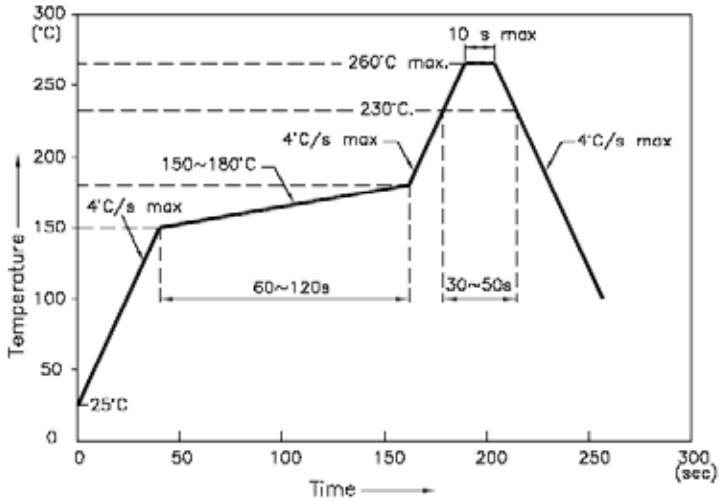
SOLDERING CONDITIONS – LAMP TYPE LED

REFLOW PROFILE

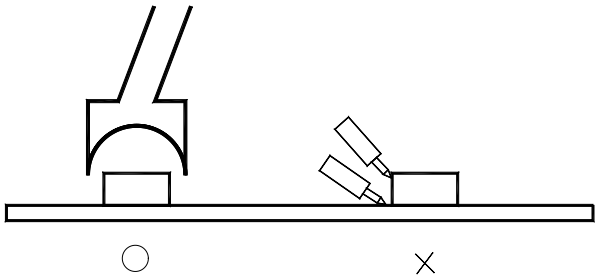


1. We recommend the reflow temperature 245°C (±5°C). The maximum soldering temperature should be limited to 260°C.
2. Do not cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

- Soldering iron
- Basic spec is ≤ 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.

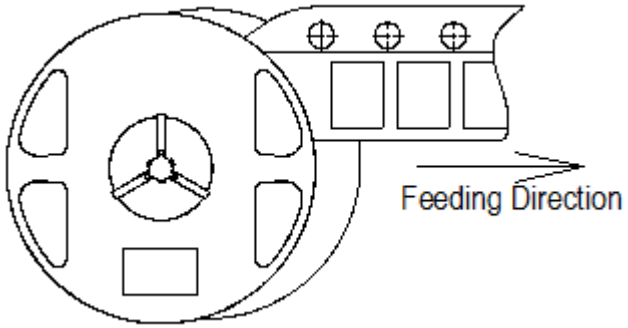
Rework

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.

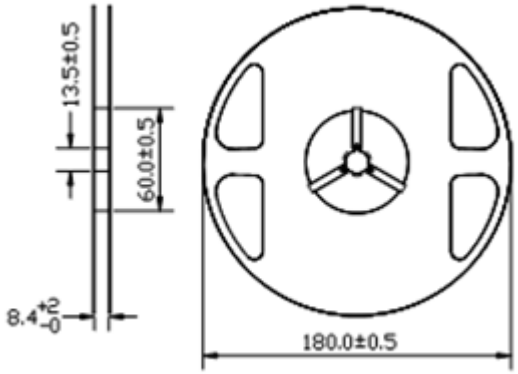


PACKAGING SPECIFICATIONS

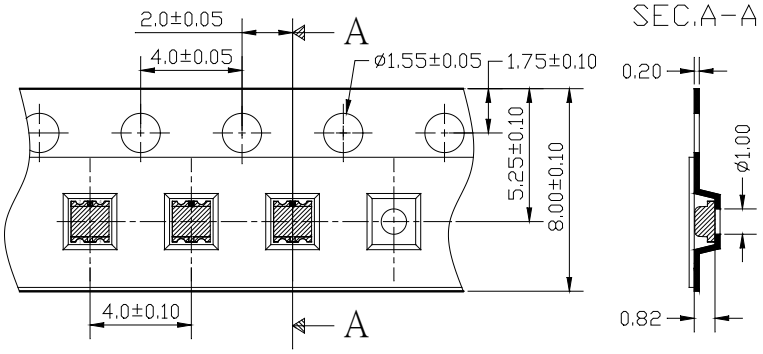
- **Feeding Direction**



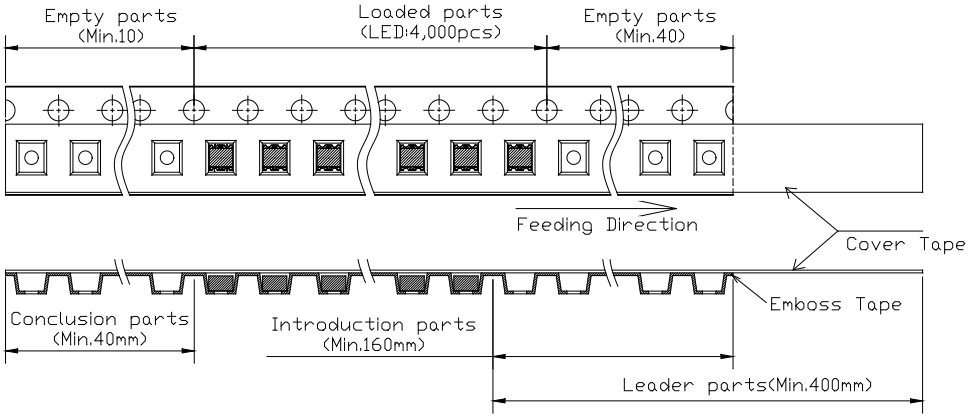
- **Dimensions of Reel (Unit: mm)**



- **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. 4,000pcs/Reel