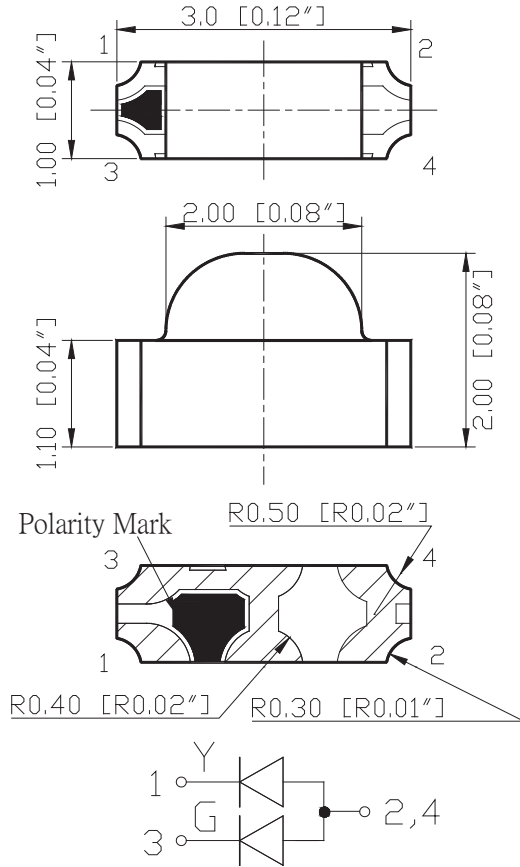
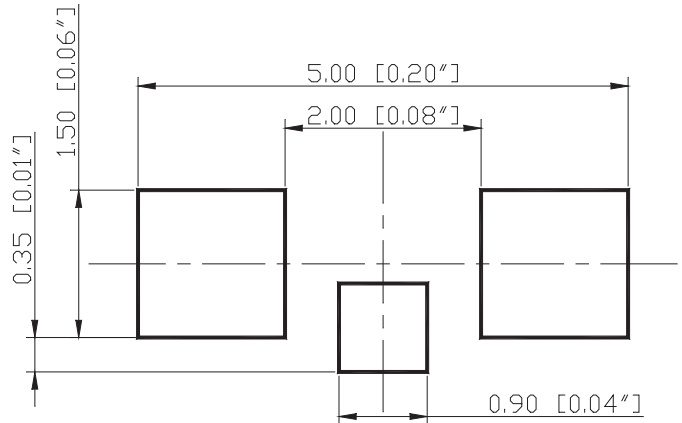


SPECIFICATIONS
CSRB124Y2G2C
OUTLINES DIMENSIONS

RECOMMENDED PAD LAYOUT


ITEM	MATERIALS	
Resin (mold)	Epoxy	
Lens Color	Water Transparent	
Dice	Yellow	AlGaInP
	Green	AlGaInP

Notes:

- All Dimensions are in millimeters (inches).
- Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.
- Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSRB124Y2G2C	InGaAlP	Yellow	Water Clear	150°
	InGaAlP	Green		



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ABSOLUTE MAXIMUM RATINGS - YELLOW (InGaAlP)
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	PD	75	mW
Pulse Forward Current	IFP	30	mA
Continuous Forward Current	IF	30	mA
Reverse Voltage	VR	5	V
Operating Temperature Range	TOPR	-40~+80	°C
Storage Temperature Range	TSTG	-40~+85	°C
IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤ 1/10. Soldering Condition: 260 °C/ 5sec			

OPTICAL-ELECTRICAL CHARACTERISTICS - YELLOW (InGaAlP)
(TA=25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	IV	IF = 20mA	40	60	-	mcd
Forward Voltage	VF	IF = 20mA	-	2.0	2.5	V
Reverse Leakage Current	IR	VR = 40V	-	-	10	µA
Peak Wavelength	λP	IF = 20mA	-	592	-	nm
Dominant Wavelength	λD	IF = 20mA	-	590	-	nm
Spectral Radiation Bandwidth	Δλ	IF = 20mA	-	17	-	nm



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ABSOLUTE MAXIMUM RATINGS - GREEN (InGaAlP)
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	PD	75	mW
Pulse Forward Current	IFP	125	mA
Continuous Forward Current	IF	30	mA
Reverse Voltage	VR	5	V
Operating Temperature Range	TOPR	-40~+80	°C
Storage Temperature Range	TSTG	-40~+85	°C
IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤ 1/10. Soldering Condition: 260 °C/ 5sec			

OPTICAL-ELECTRICAL CHARACTERISTICS - GREEN (InGaAlP)
(TA=25°C)

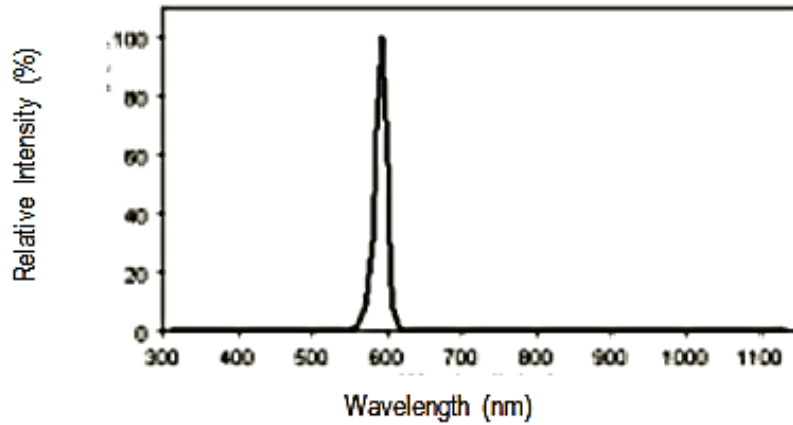
Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	IV	IF = 20mA	20	30	-	mcd
Forward Voltage	VF	IF = 20mA	-	2.0	2.5	V
Reverse Leakage Current	IR	VR = 40V	-	-	10	µA
Peak Wavelength	λP	IF = 20mA	-	572	-	nm
Dominant Wavelength	λD	IF = 20mA	-	570	-	nm
Spectral Radiation Bandwidth	Δλ	IF = 20mA	-	17	-	nm



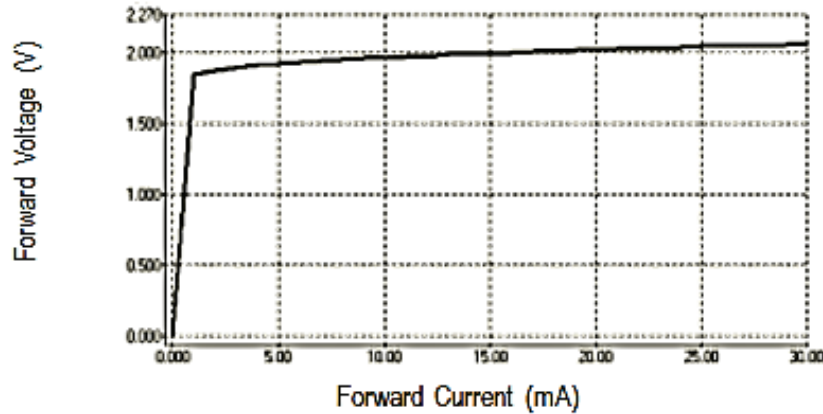
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OPTICAL CHARACTERISTIC CURVES - YELLOW

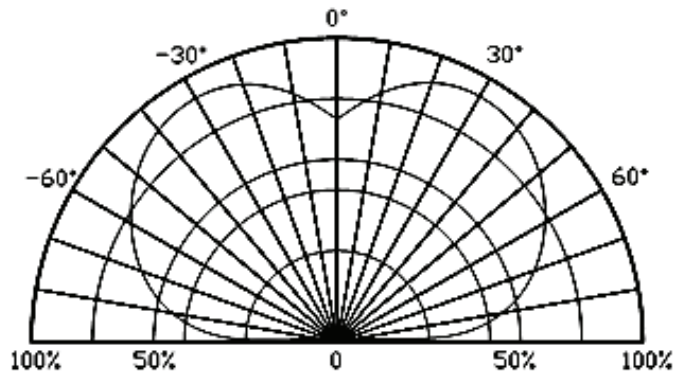
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage

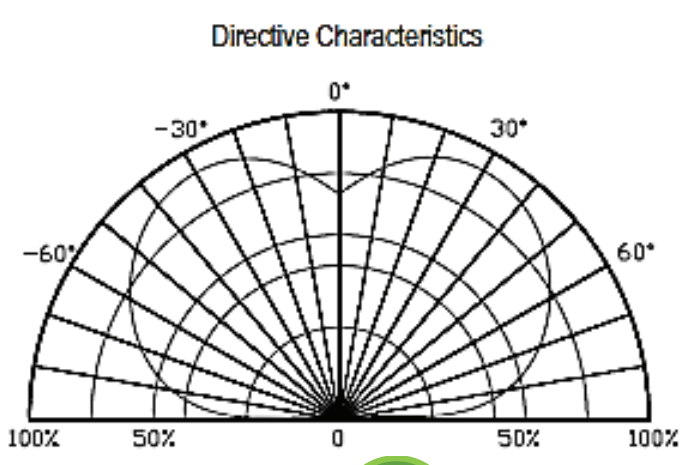
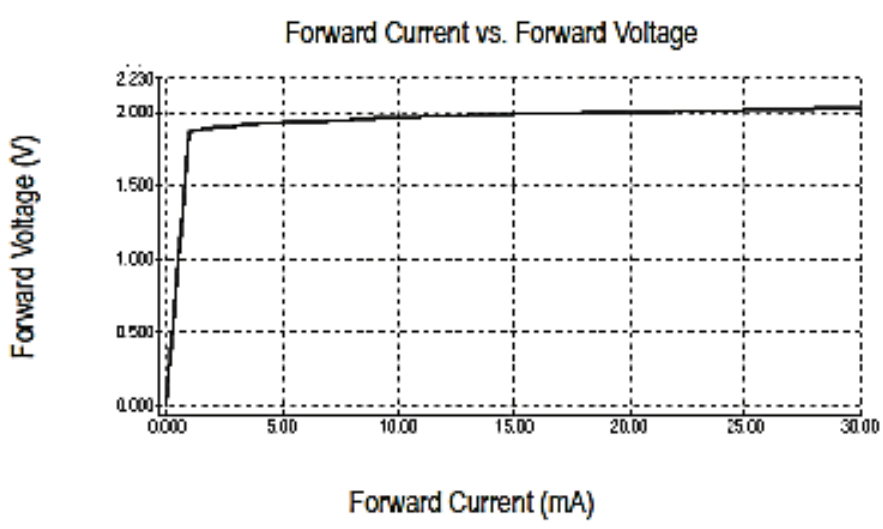
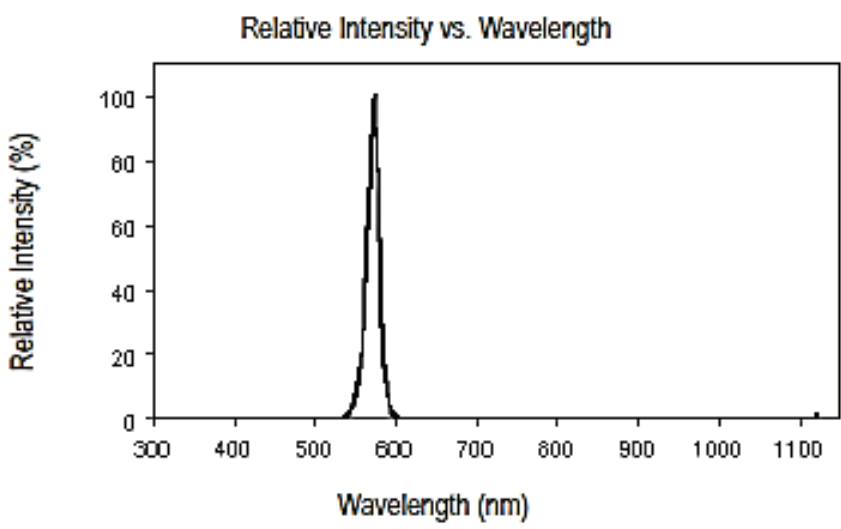


Directive Characteristics



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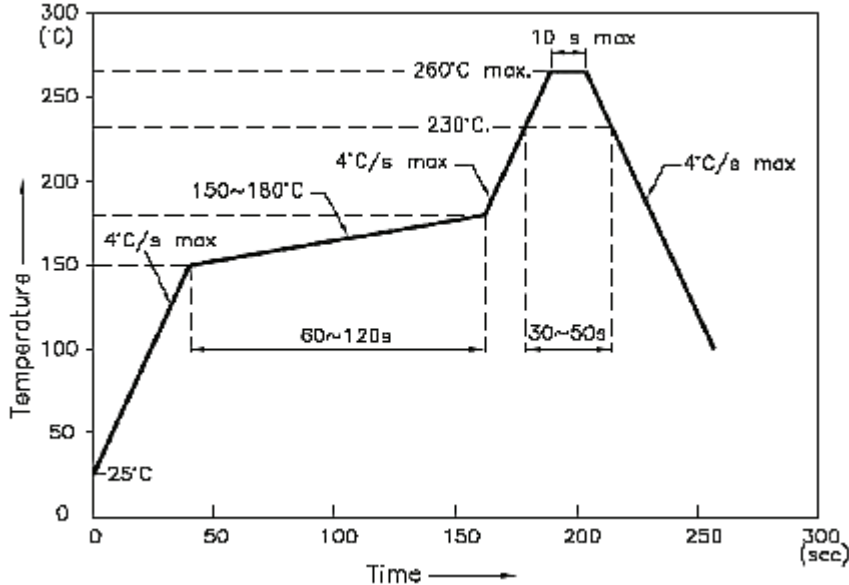
OPTICAL CHARACTERISTIC CURVES - GREEN



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RECOMMENDED SOLDERING PROFILE

REFLOW PROFILE



Notes:

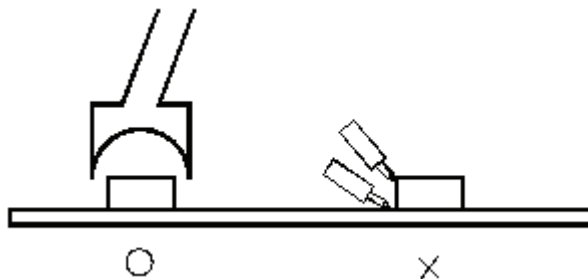
1. We recommend the reflow temperature 245°C (±5°C). The maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

- 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

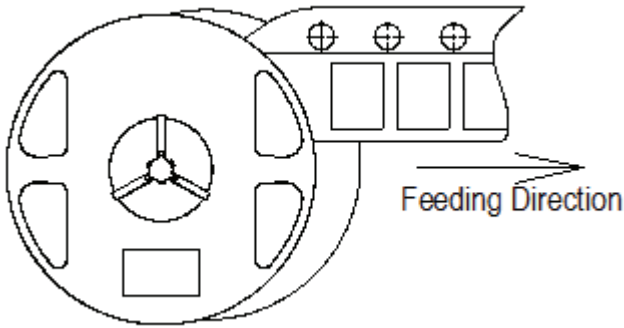
1. Customer must finish rework within 5 sec under 260°C.
2. The head of iron cannot touch copper foil.
3. Twin-head type is preferred.



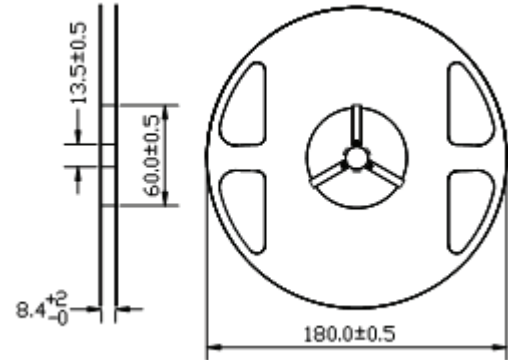
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PACKAGING SPECIFICATIONS

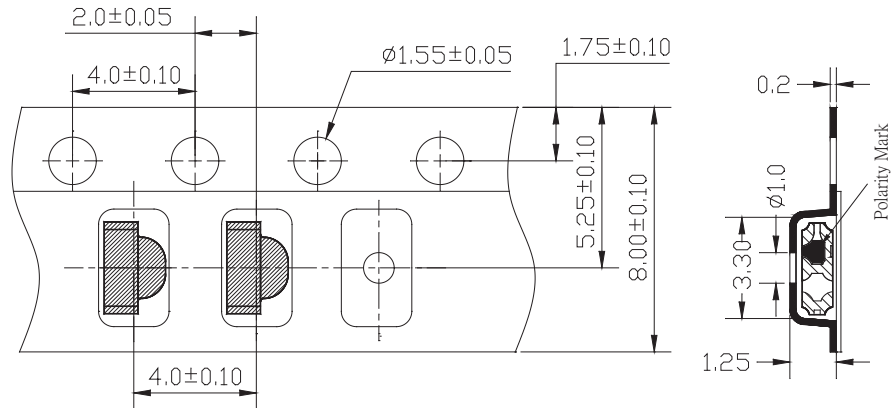
Feeding Direction



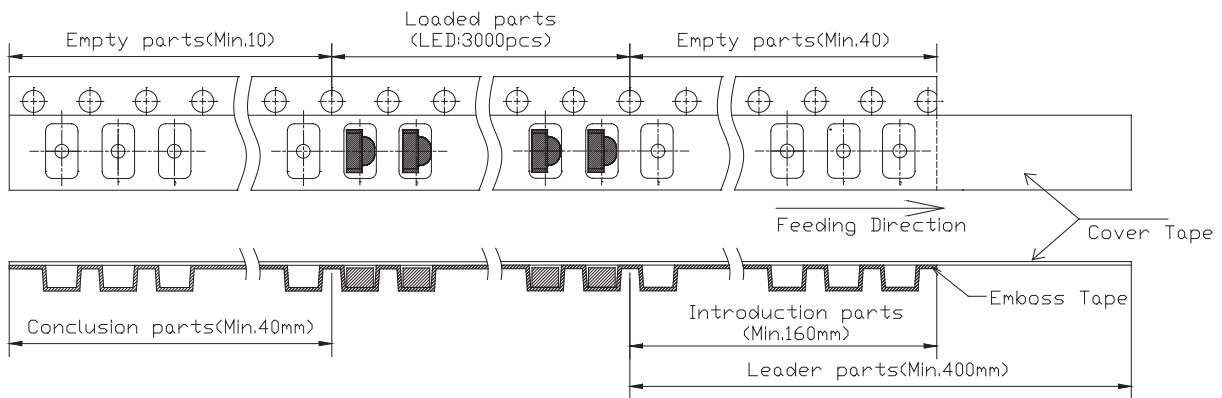
Dimensions of Reel (Unit: mm)



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 lamp is two.
3. The polarity mark is oriented towards the tape sprocket hole.
4. 3,000 pcs/Reel



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