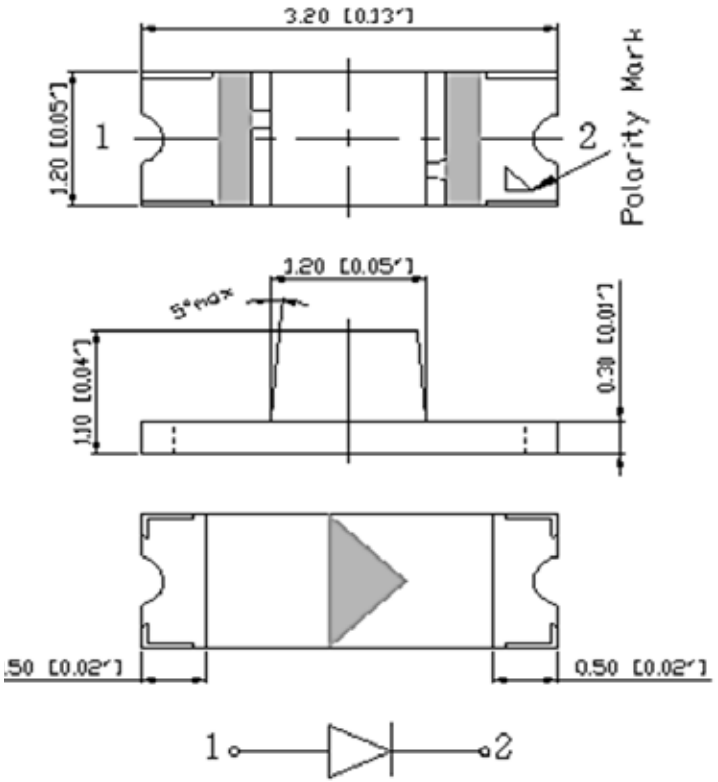
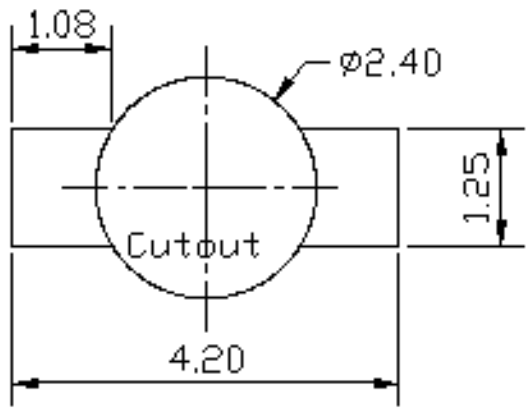


SPECIFICATION **CS124AA2C-R**
PACKAGE OUTLINES

RECOMMENDED SOLDER PAD


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

ITEM	MATERIALS
Resin (Mold)	Epoxy
Lens Color	Water Transparent
Dice	AlGaInP
Emitted Color	Orange

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CS124AA2C-R	InGaAlP	Amber	Water Clear	140°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	IF	30	mA
Reverse Current @ 5V	IR	10	μA
Power Dissipation	Pd	75	mW
Operating Temperature Range	TOP	-40~+85	°C
Storage Temperature Range	TSTG	-40~+85	°C
Peak Pulsing Current (1/10 duty f = 10KHz)	IFP	125	mA
Soldering Temperature	TSOL	Max 260°C for 5 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

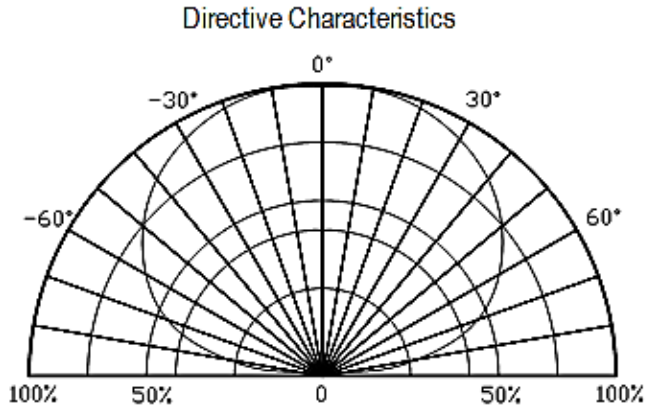
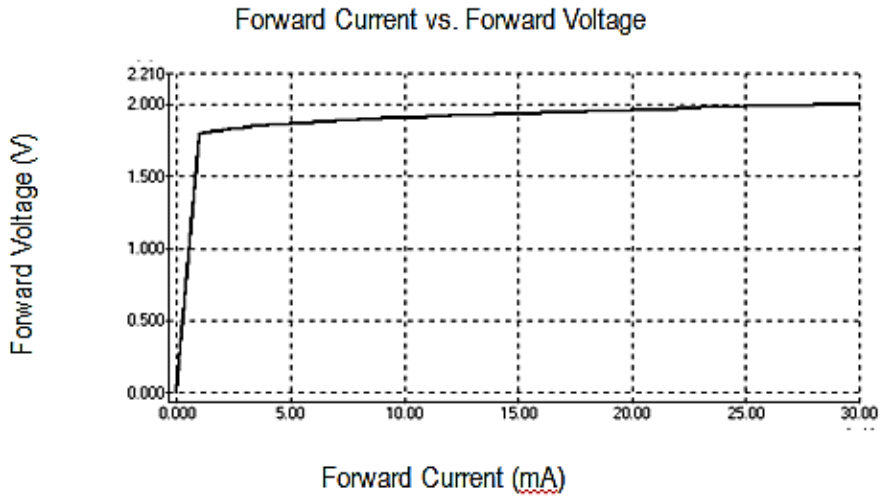
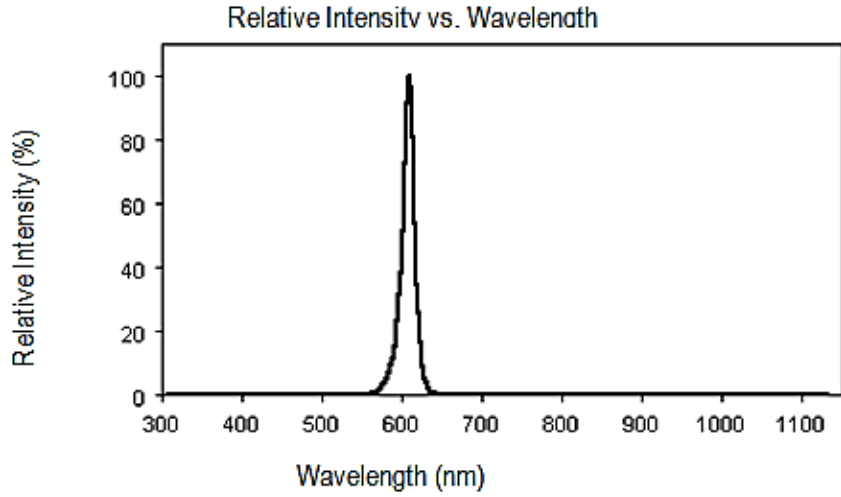
Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	Iv	IF = 20mA	63	120	-	mcd
Forward Voltage	VF	IF = 20mA	-	2.0	2.5	V
Reverse Leakage Current	IR	VR = 5V	-	-	10	μA
Viewing Angle at 50% Iv	2θ1/2	IF = 20mA	-	140	-	Deg
Peak Wavelength	λP	IF = 20mA	-	610	-	nm
Dominant Wavelength	λD	IF = 20mA	600	605	610	nm

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



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OPTICAL CHARACTERISTIC CURVES

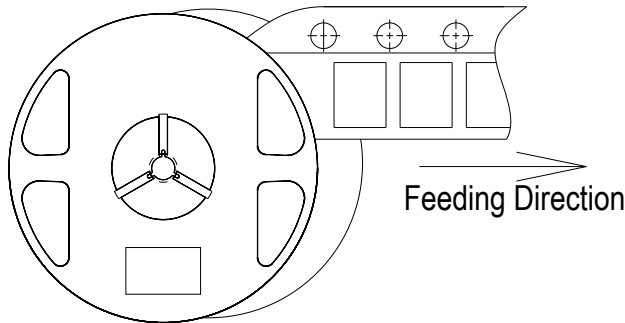


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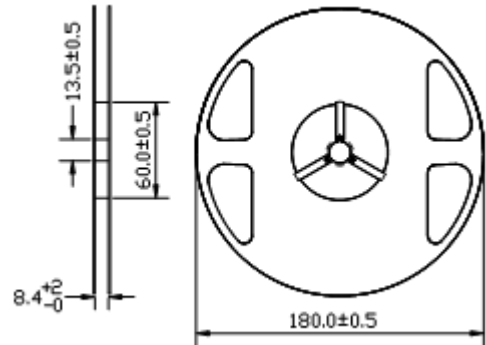
PACKAGING SPECIFICATION

PACKAGING SPECIFICATIONS

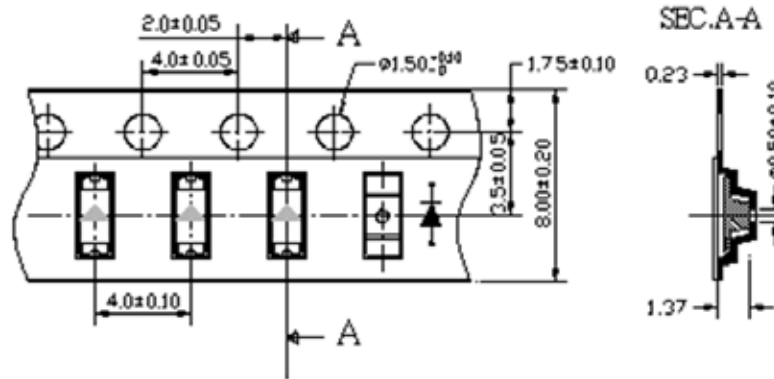
Feeding Direction



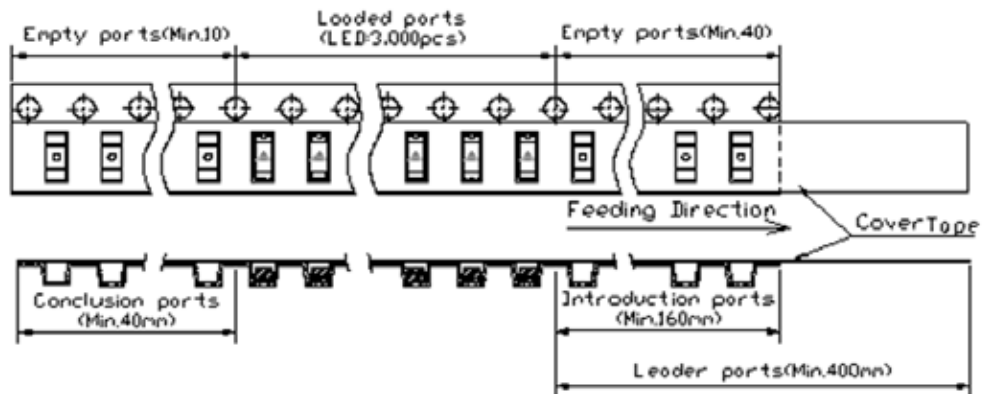
Dimensions of Reel (Unit: mm)



Dimensions of Tape (Unit: mm)



Arrangement of Tape



Notes:

1. Empty component pockets are sealed with top cover tape
2. Maximum number of missing lamp is two
3. Cathode is oriented towards the tape sprocket hole
4. 3,000 pcs/Reel

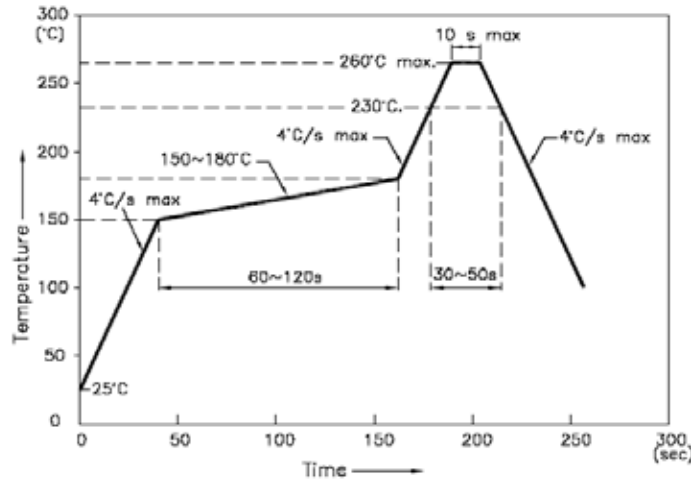


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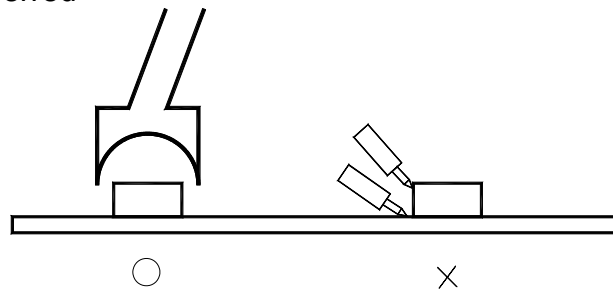
SOLDERING CONDITIONS

SOLDERING PROFILE

Reflow Temp/Time



- We recommend the reflow temperature 245°C (± 5 °C) & the maximum soldering temperature should be limited to 260 °C.
- Do not cause stress to the epoxy resin while it is exposed to high temperature.
- Number of reflow process should be 2 times or less.
- Soldering Iron:
 - Basic spec is ≤ 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:
 - Customer must finish rework within 5 sec under 260 °C
 - The head of iron cannot touch copper foil
 - Twin-head type is preferred



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