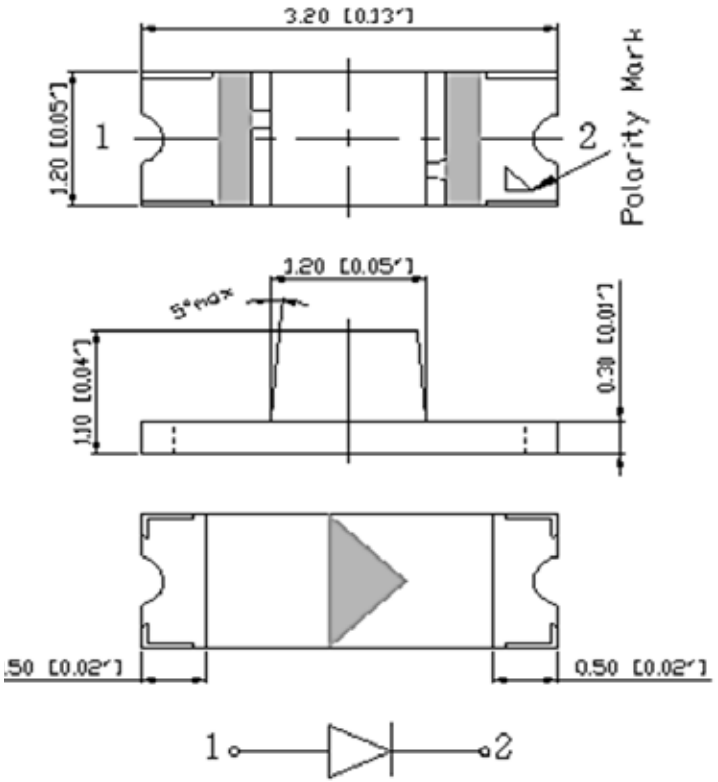
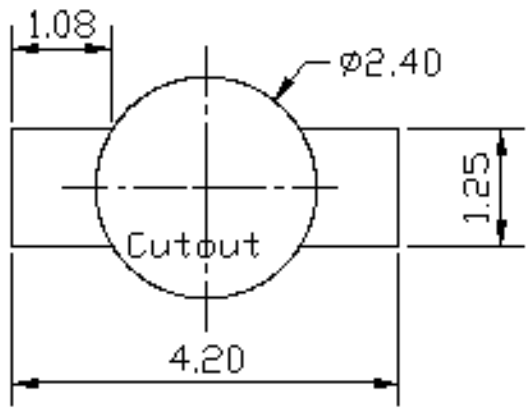


SPECIFICATION **CS124AY2C-R**
PACKAGE OUTLINES

RECOMMENDED SOLDER PAD


ITEM	MATERIALS
Resin (Mold)	Epoxy
Lens Color	Water Transparent
Dice	AllInGaP
Emitted Color	Yellow

- 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.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CS124AY2C-R	InGaAlP	Yellow	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	80	150	-	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	-	590	-	nm
Dominant Wavelength	λD	IF = 20mA	585	590	595	nm

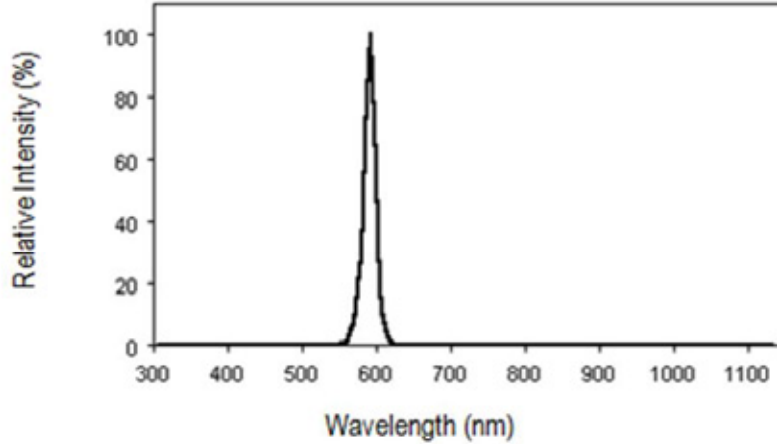
*Tolerance of viewing angle: -10 / +5 deg.



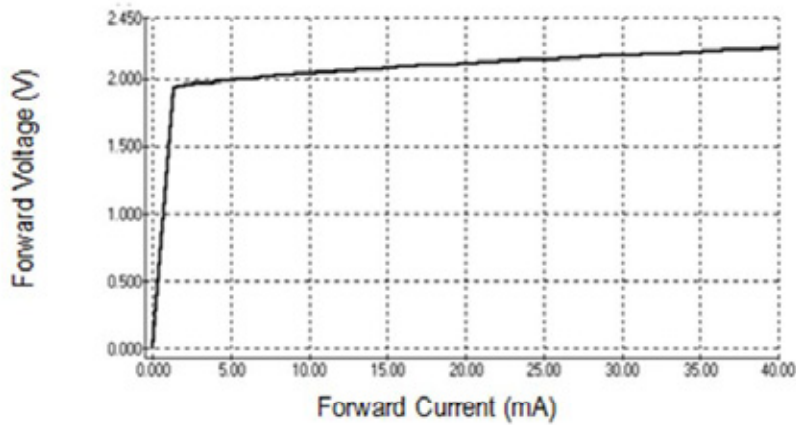
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OPTICAL CHARACTERISTIC CURVES

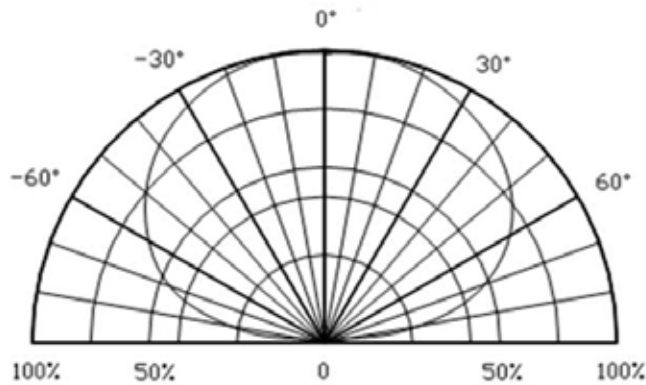
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage



Directive Characteristics

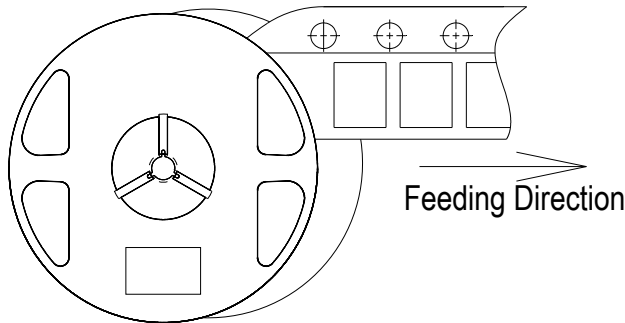


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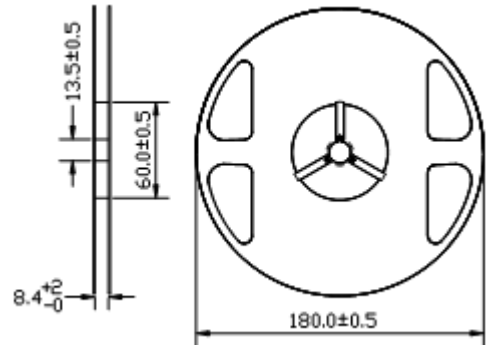
PACKAGING SPECIFICATION

PACKAGING SPECIFICATIONS

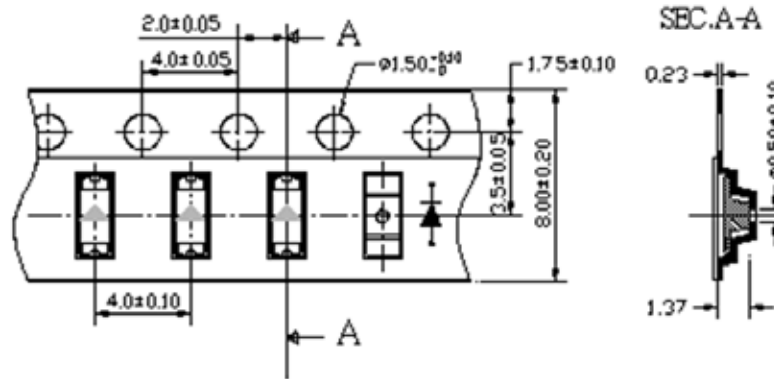
Feeding Direction



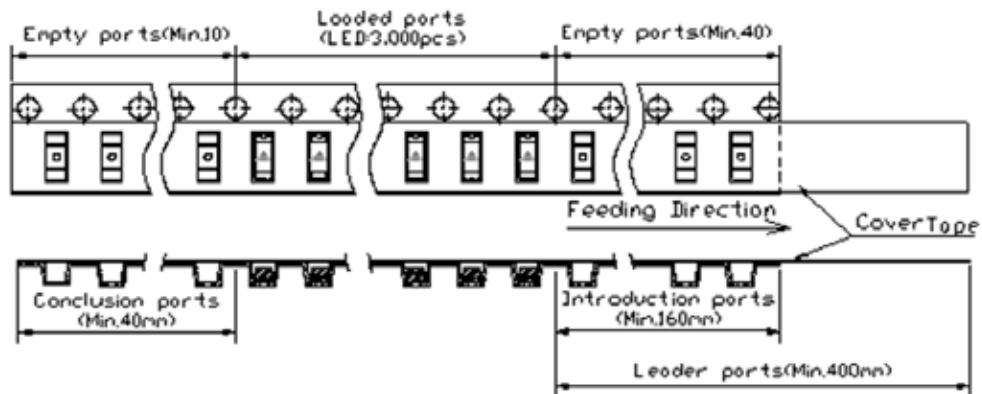
Dimensions of Reel (Unit: mm)



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

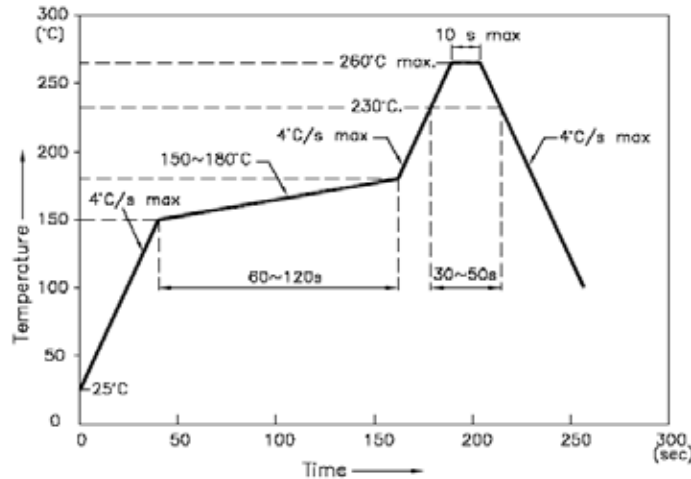


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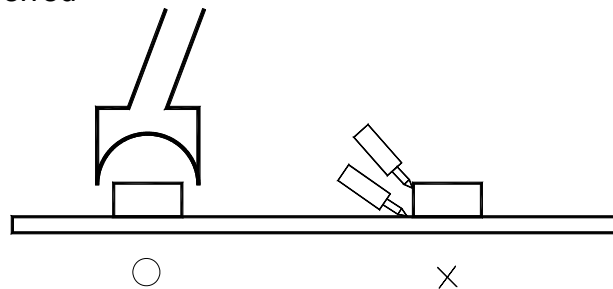
SOLDERING CONDITIONS

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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