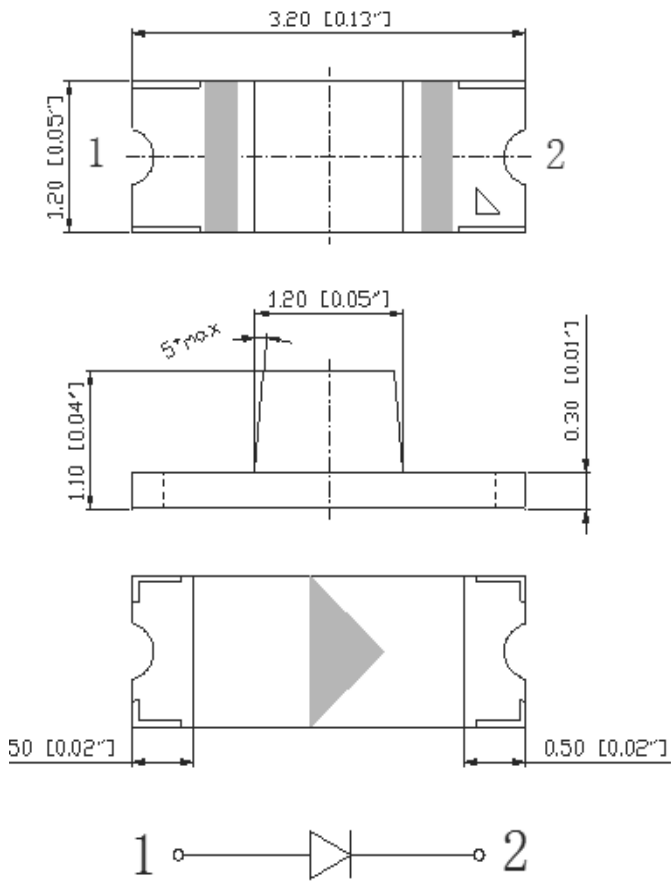
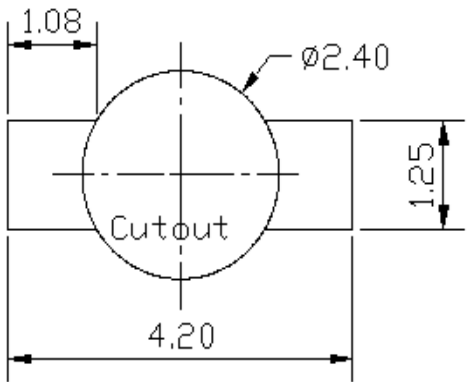


SPECIFICATION **CS124AWW2C-R**
PACKAGE OUTLINES

RECOMMEND PAD LAYOUT


- 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
CS124AWW2C-R	InGaN	White	Yellow Diffused	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	111	mW
Operating Temperature Range	TOP	-40~+8	°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	320	510	-	mcd
Forward Voltage	VF	IF = 20mA	-	3.0	3.7	V
Reverse Leakage Current	IR	VR = 5V	-	-	10	μA
Viewing Angle at 50% Iv	2θ1/2	IF = 20mA	-	140	-	Deg
CIE Coordinates	X	IF = 20mA	-	0.46	-	-
	Y	IF = 20mA	-	0.41	-	-

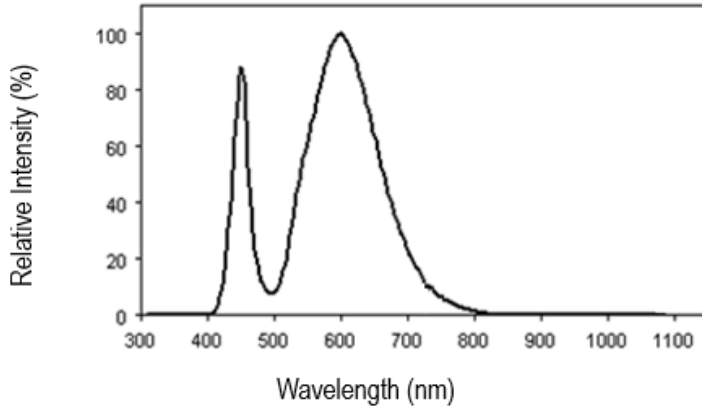
*Tolerance of viewing angle: -10 / +5 deg.



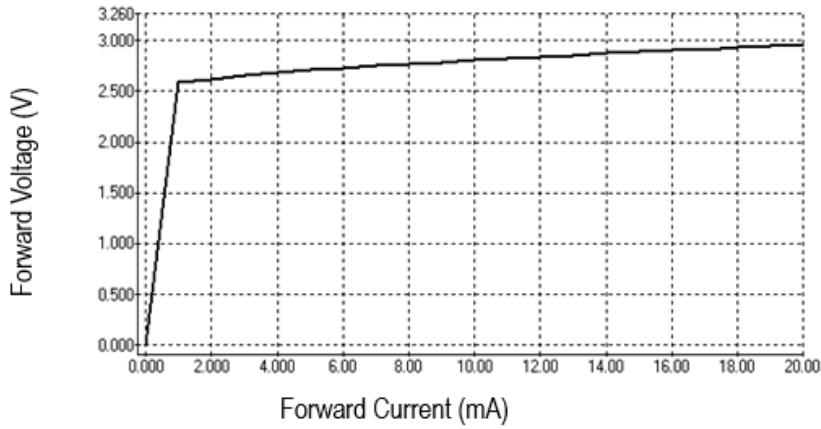
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OPTICAL CHARACTERISTIC CURVES

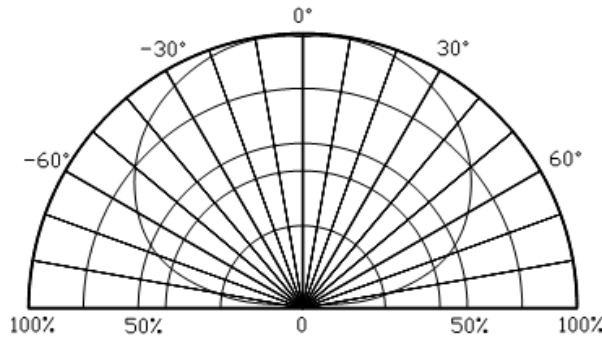
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage



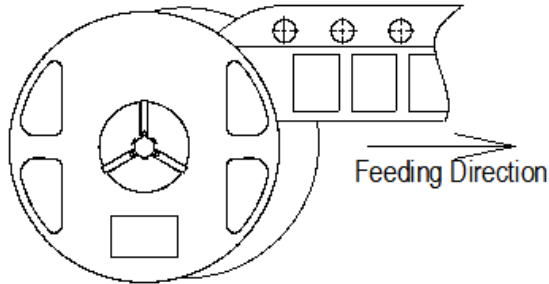
Directive Characteristics



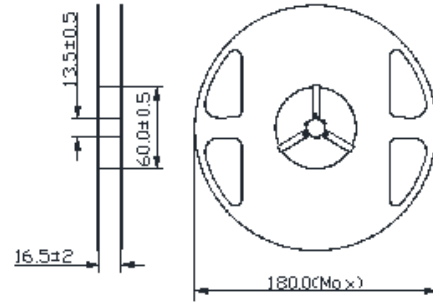
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PACKAGING SPECIFICATION

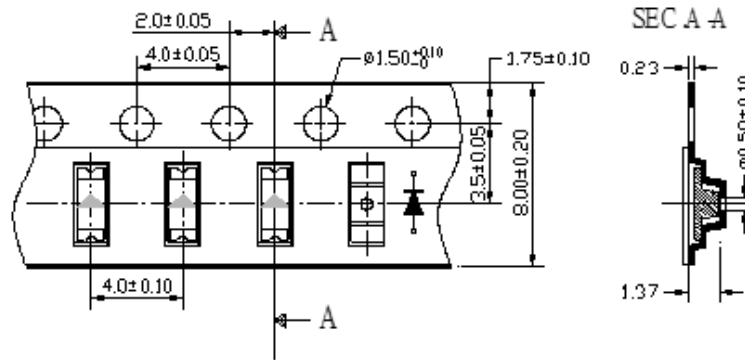
- Feeding Direction



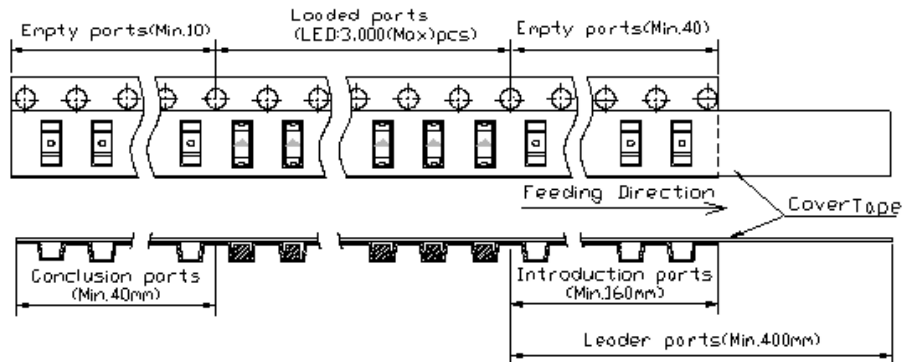
- Dimensions of Reel(Unit: mm)



- Dimensions of Tape(Unit: mm)



- Arrangement of Tape



Notes:

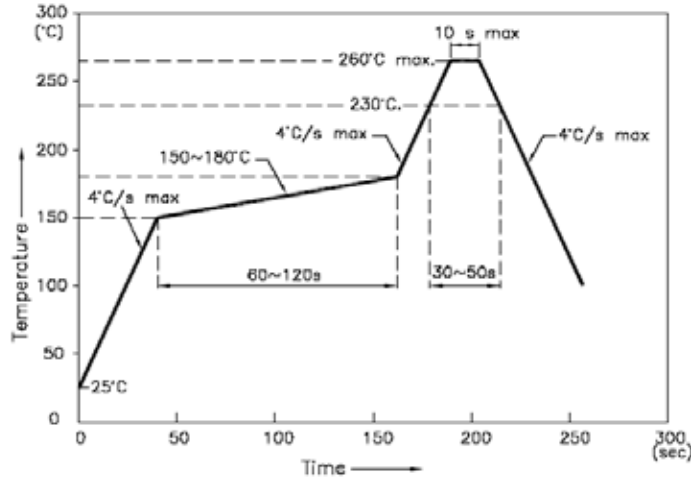
1. Empty component pockets are sealed with top cover tape;
2. The maximum number of missing lamps is two;
3. The cathode is oriented towards the tape sprocket hole.
4. 3,000 (Max)pcs/Reel



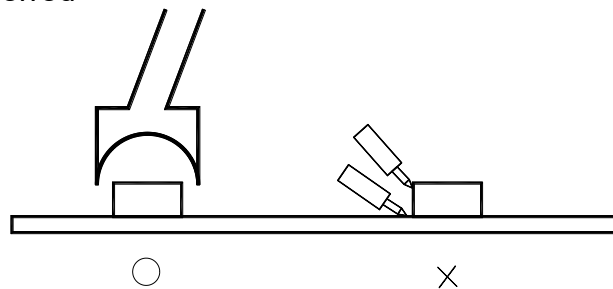
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SOLDERING CONDITIONS

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 → -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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