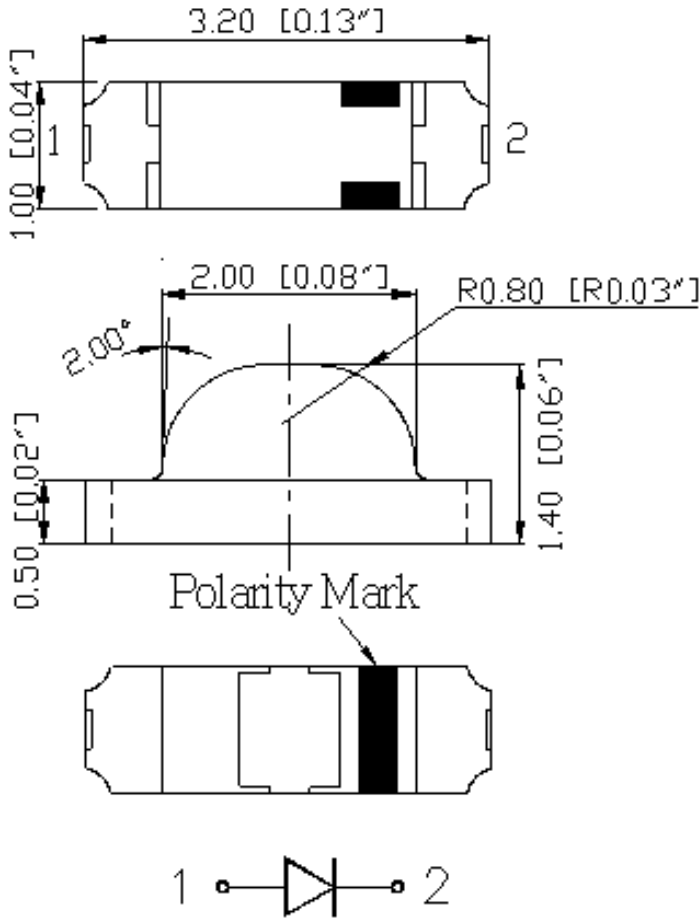
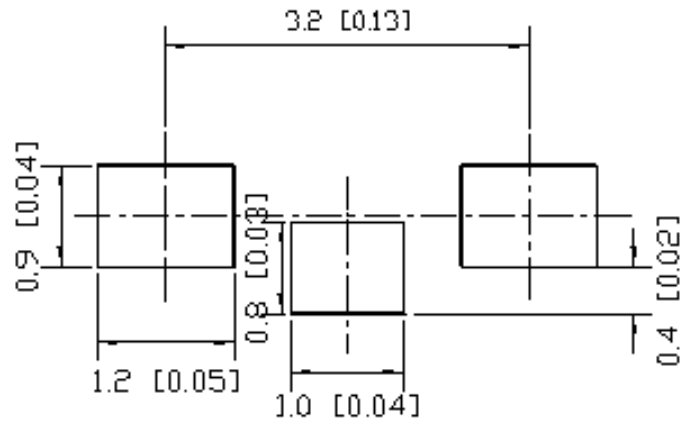


SPECIFICATION **CSR124G1C**
PACKAGE OUTLINES

RECOMMEND PAD LAYOUT


ITEM	MATERIALS
Resin (mold)	Epoxy
Bonding Wire	↓ 25μm Au
Lens Color	Water Transparent
Printed Circuit Board	BT (White)
Dice	GaP/GaP
Emitted Color	Green

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
CSR124G1C	GaP	Green	Water Clear	150°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	I _F	30	mA
Reverse Current @ 5V	I _R	10	μA
Power Dissipation	P _d	75	mW
Operating Temperature Range	T _{OP}	-40~+80	°C
Storage Temperature Range	T _{STG}	-40~+85	°C
Peak Pulsing Current (1/10 duty f = 10KHz)	I _{FP}	125	mA
Soldering Temperature	T _{SOL}	Max 260°C for 5 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

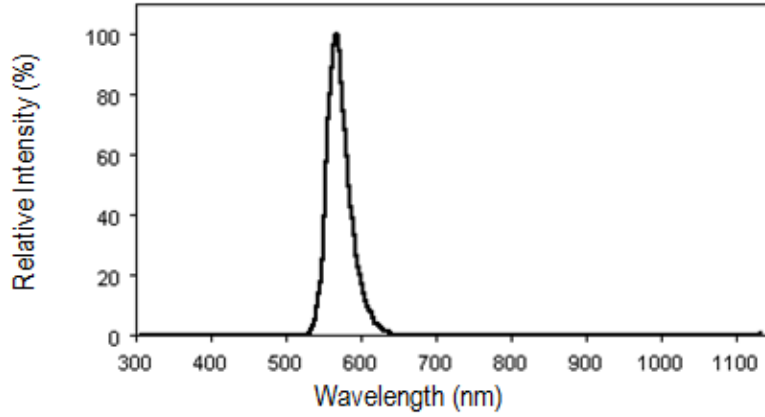
Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	I _v	I _F = 20mA	5	13	-	mcd
Forward Voltage	V _F	I _F = 20mA	-	2.1	2.5	V
Reverse Leakage Current	I _R	V _R = 5V	-	-	10	μA
Viewing Angle at 50% I _v	2θ _{1/2}	I _F = 20mA	-	150	-	Deg
Peak Wavelength	λ _P	I _F = 20mA	-	565	-	nm
Dominant Wavelength	λ _D	I _F = 20mA	-	569	-	nm

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

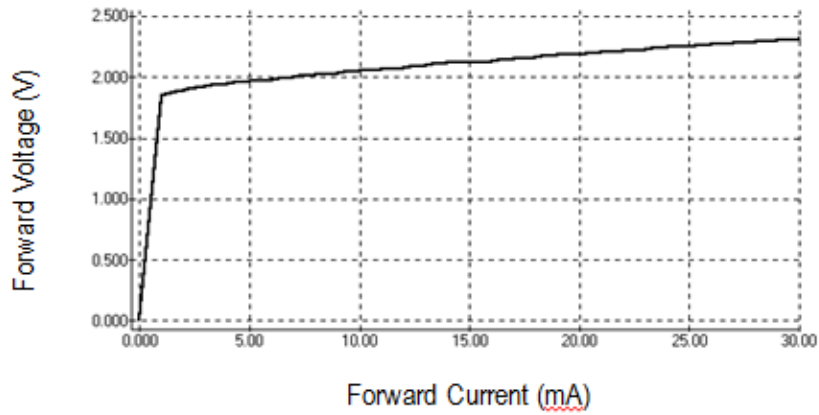

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OPTICAL CHARACTERISTIC CURVES

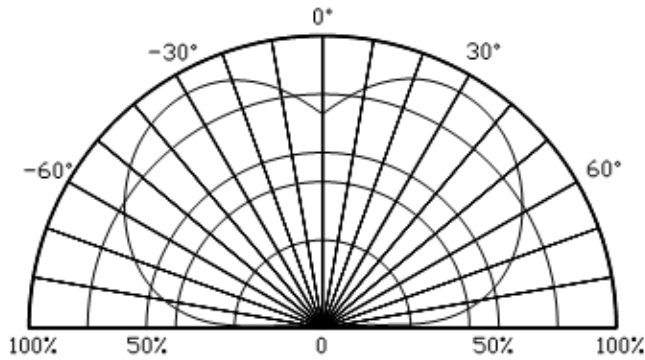
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage



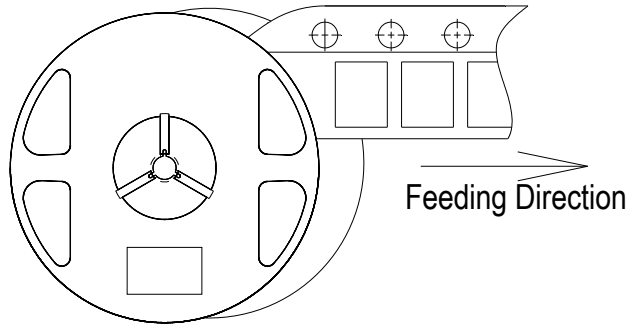
Directive Characteristics



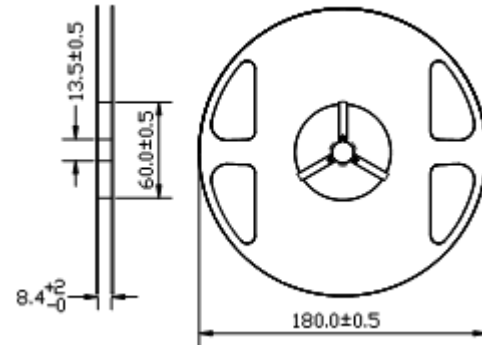
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PACKAGING SPECIFICATION

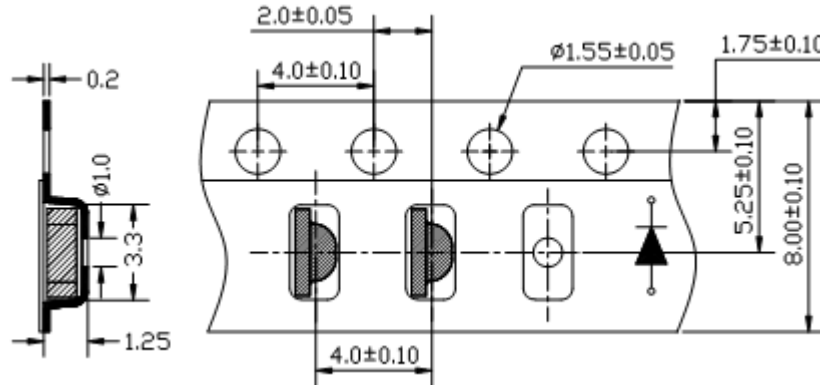
Feeding Direction



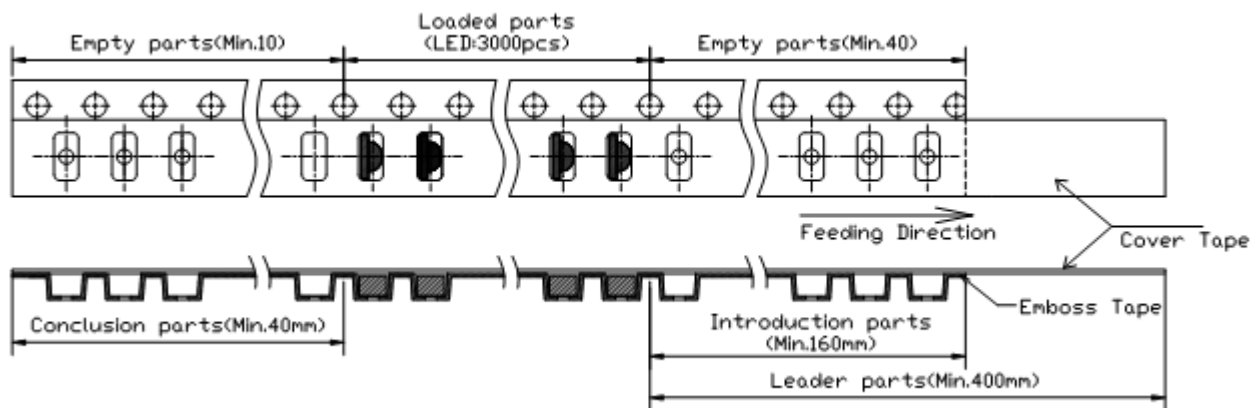
Dimensions of Reel (Unit: mm)



Dimensions of Tape (Unit: mm)



Arrangement of Tape



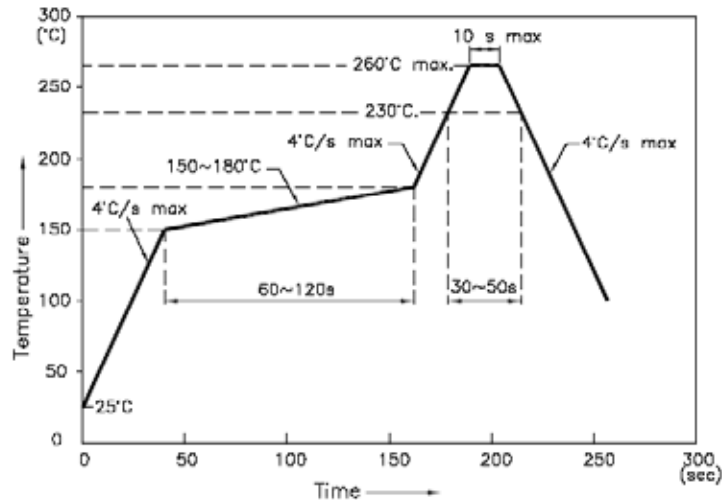
- Empty component pockets are sealed with top cover tape
- The maximum number of missing lamps is two
- The cathode is oriented towards the tape sprocket hole
- 3,000 pcs/Reel



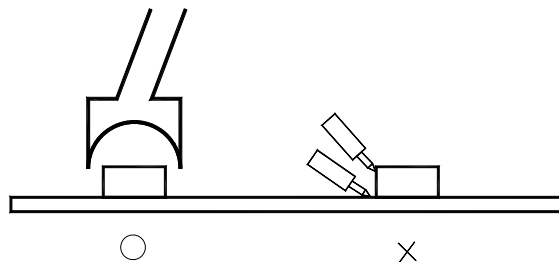
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SOLDERING CONDITIONS

REFLOW PROFILE



1. We recommend the reflow temperature 245°C ($\pm 5^\circ\text{C}$). 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 should be 2 times or less.
- Soldering Iron
 - Basic spec is $\leq 5\text{sec}$ when 260°C. If temperature is higher, time should be shorter ($+10^\circ\text{C} \rightarrow -1\text{sec}$). 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
 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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