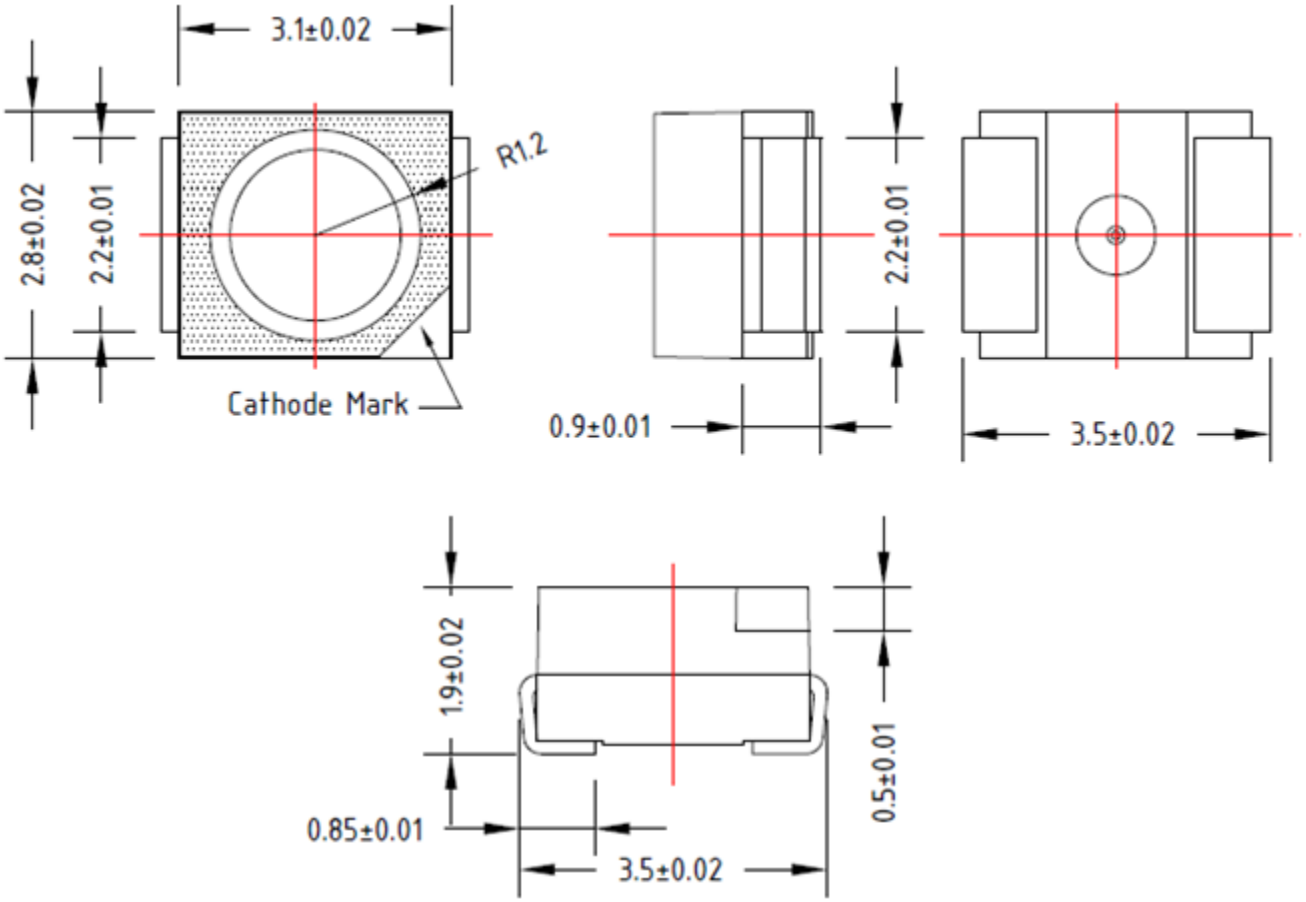
SPECIFICATION CSP1311W3C

PACKAGE OUTLINES



Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25mm (0.01”) unless otherwised noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSP1311W3C	InGaN	White	Water Clear	120°

RoHS Compliant Lead Free

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ABSOLUTE MAXIMUM RATINGS (TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	I_F	30	mA
Power Dissipation	Pd	100	mW
Reverse Voltage	V_R	5	V
Operating Temperature Range	T_{OP}	-30~+85	°C
Storage Temperature Range	T_{STG}	-40~+100	°C
Peak Pulsing Current (1/8 duty f = 1KHz)	I_{FP}	100	mA
Soldering Temperature	T_{SOL}	Max 265°C for 10 sec Max	

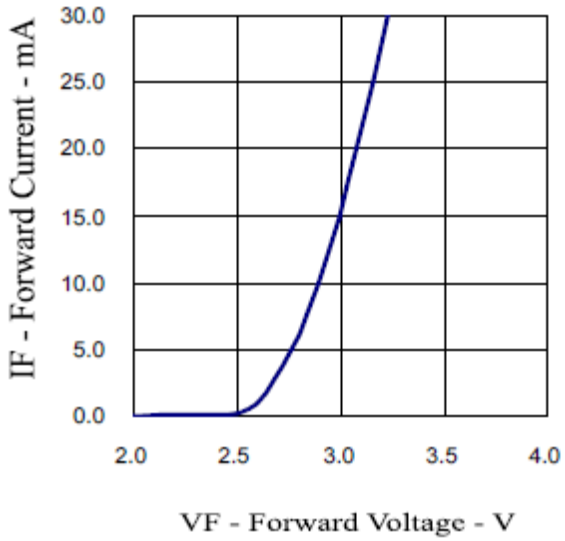
OPTICAL-ELECTRICAL CHARACTERISTICS (TA=25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	Iv	I_F = 20mA	1800	2300	-	Mcd
Forward Voltage	V_F	I_F = 20mA	-	3.1	3.5	V
Viewing Angle at 50% Iv	2θ1/2	I_F = 20mA	-	120	-	Deg
Chromaticity Coordinate	X	I_F = 25mA	-	0.31	-	-
Chromaticity Coordinate	Y	I_F = 25mA	-	0.32	-	-

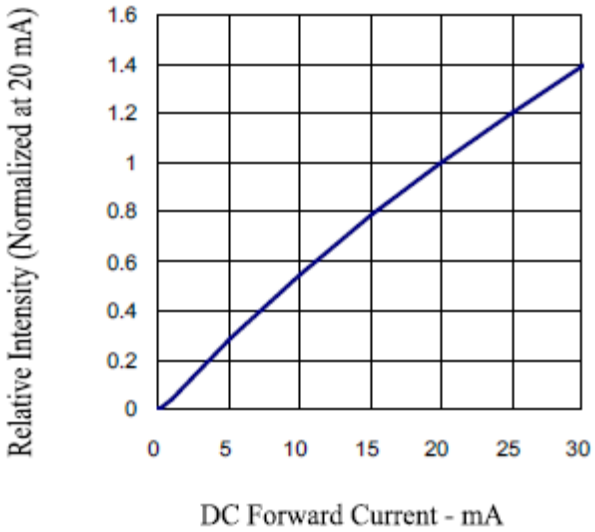
*Tolerance of viewing angle: -10 / +5 deg.

OPTICAL CHARACTERISTIC CURVES

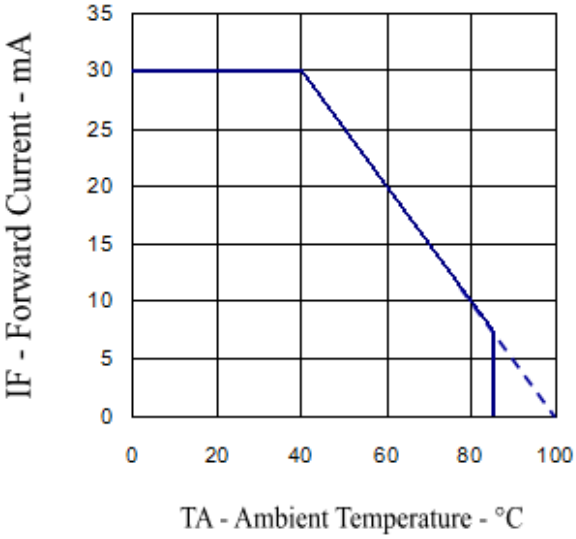
Forward Current vs. Forward Voltage



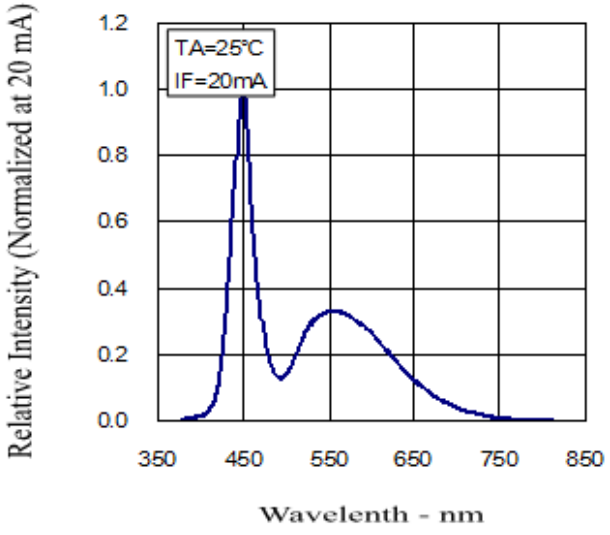
Relative Intensity vs. Forward Current



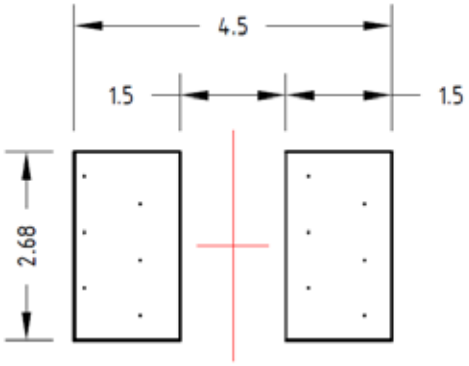
Forward Current vs. Ambient Temperature



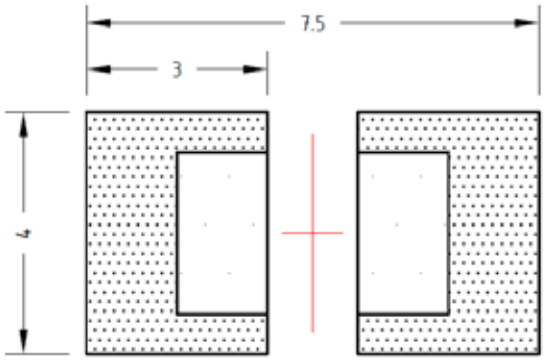
Relative Intensity vs. Wavelength



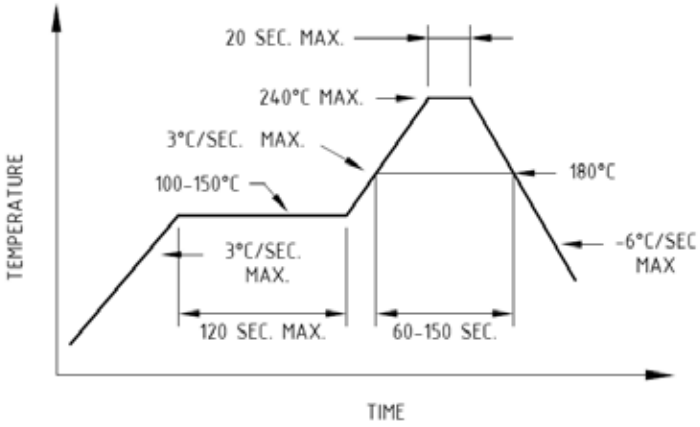
SOLDERING CONDITIONS



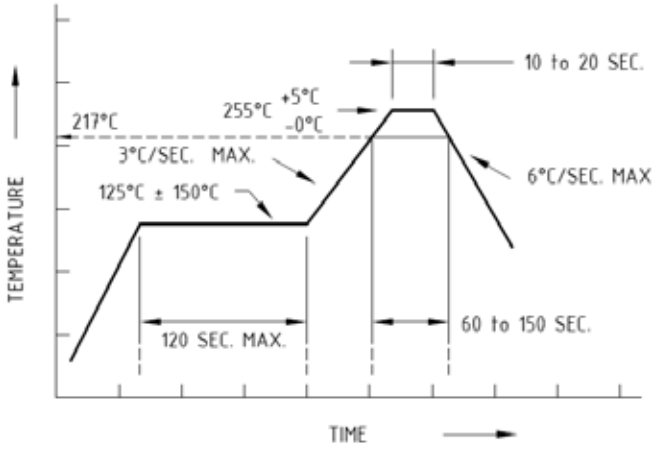
(Unit:mm)



Solder resist (Unit:mm)



Recommended reflow soldering profile

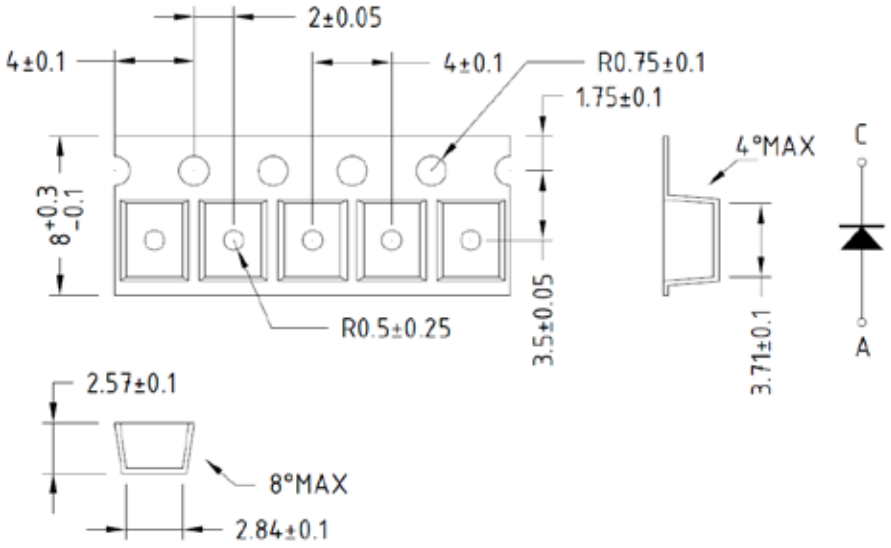


Recommended Pb-free reflow soldering profile

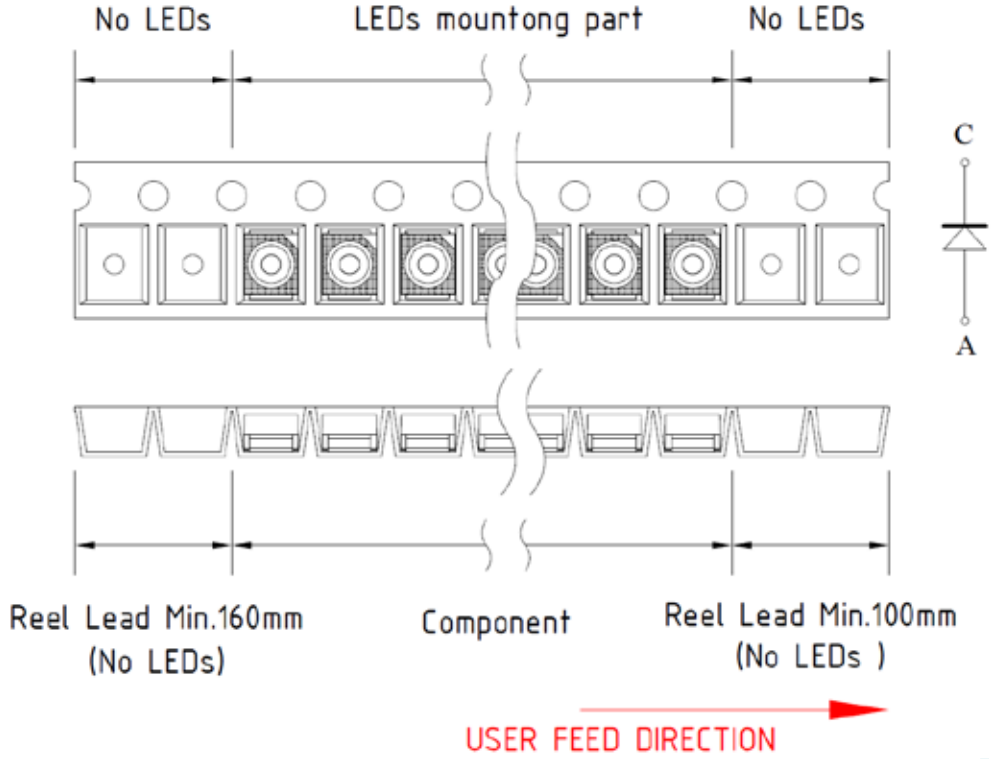
- Repairing should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used. It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.
- Reflow soldering should not be done more than two times.
- When soldering, do no put stress on the LEDs during heating.
- After soldering, do not warp the circuit board.

PACKAGING SPECIFICATION

Tape Dimension



Tape Leader and Trailer Dimension



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