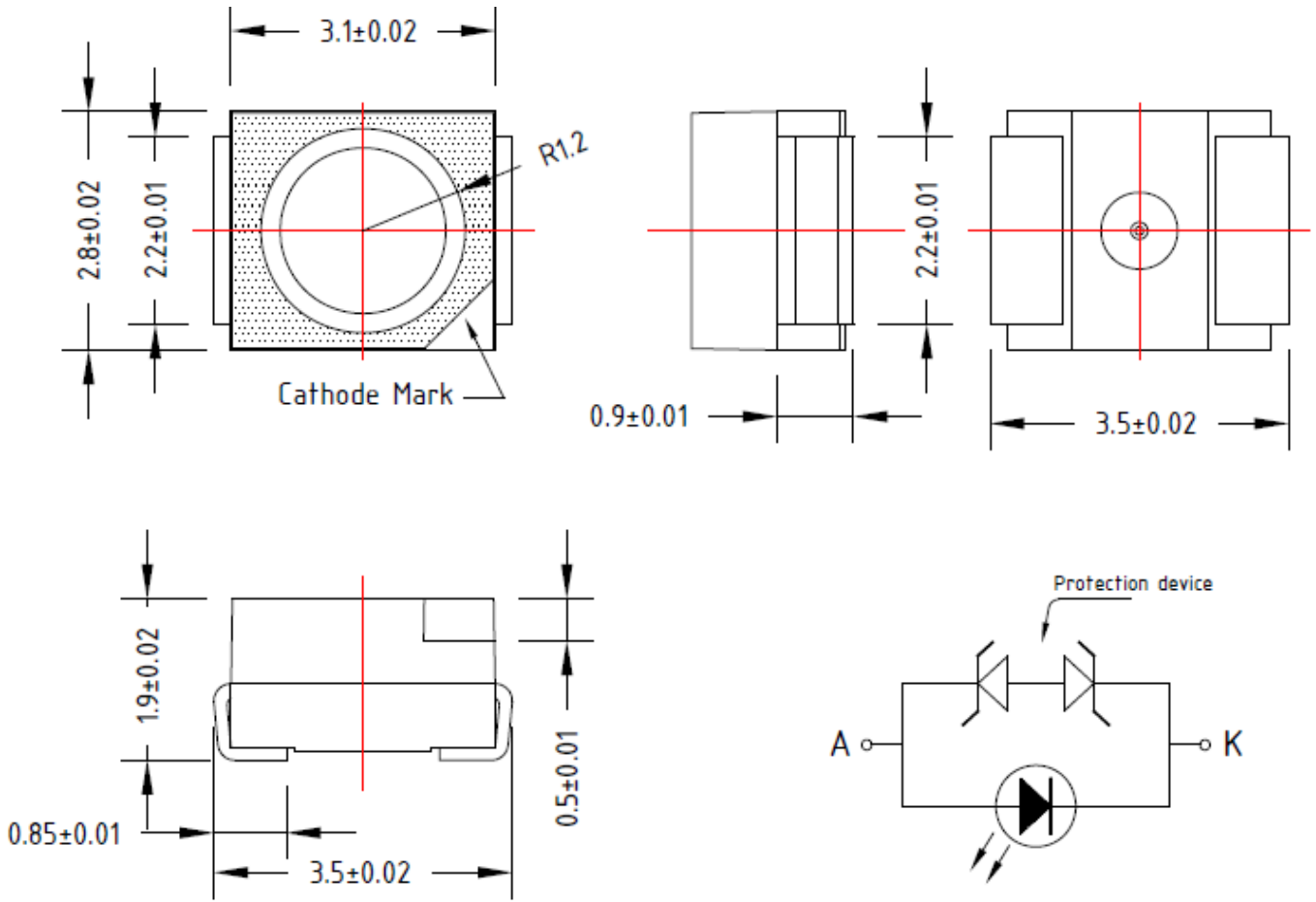


**SPECIFICATION CSP1311W2ZC**
**PACKAGE OUTLINES**


- 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
CSP1311W2ZC	InGaN	White	Yellow	120°



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**ABSOLUTE MAXIMUM RATINGS**
**(TA=25°C)**

Parameter	Symbol	Max Rating	Unit
Forward Current	I <sub>F</sub>	30	mA
Reverse Current @ 5V	I <sub>R</sub>	10	μA
Power Dissipation	P <sub>d</sub>	105	mW
Operating Temperature Range	T <sub>OP</sub>	-30~+100	°C
Storage Temperature Range	T <sub>STG</sub>	-40~+100	°C
Peak Pulsing Current (1/10 duty f = 10KHz)	I <sub>FP</sub>	100	mA
Soldering Temperature	T <sub>SOL</sub>	Max 260°C for 5 sec Max	

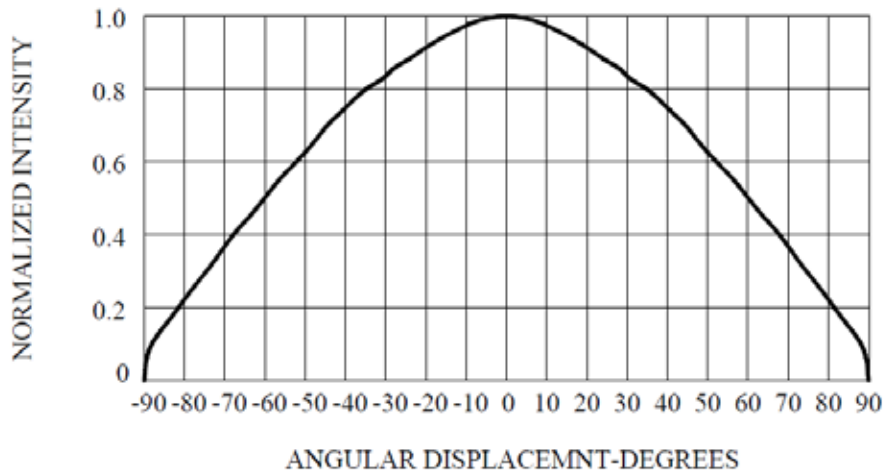
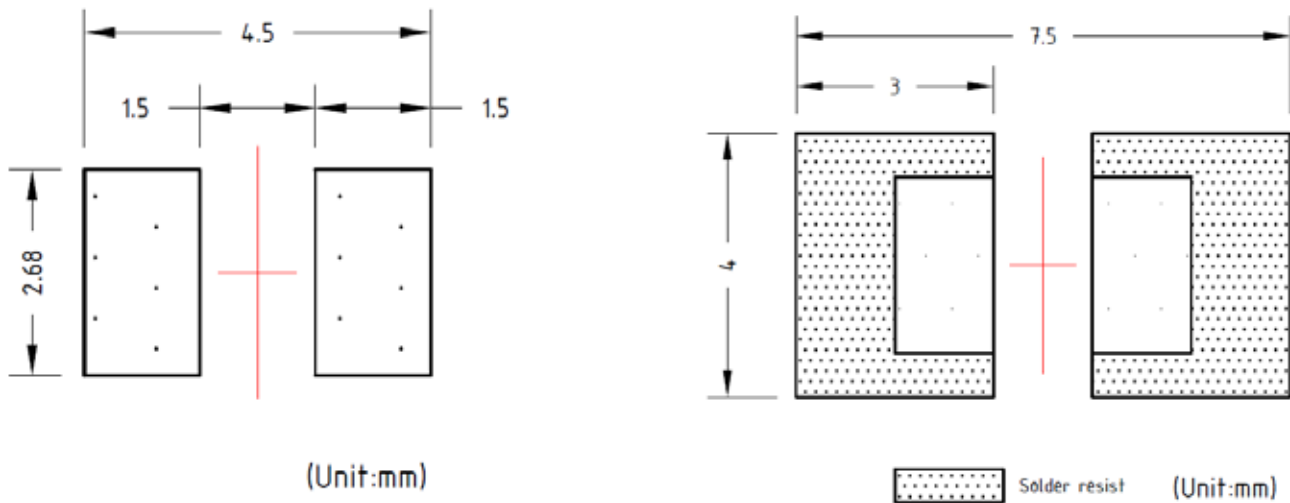
**OPTICAL-ELECTRICAL CHARACTERISTICS**
**(TA=25°C)**

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> = 20mA	1800	2300	-	mcd
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20mA	-	3.1	3.5	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> = 5V	-	-	10	μA
Viewing Angle at 50% I <sub>v</sub>	2θ <sub>1/2</sub>	I <sub>F</sub> = 20mA	-	120	-	Deg
Chromaticity Coordinate	X	I <sub>F</sub> = 20mA	-	0.31	-	-
Chromaticity Coordinate	Y	I <sub>F</sub> = 20mA	-	0.32	-	-

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



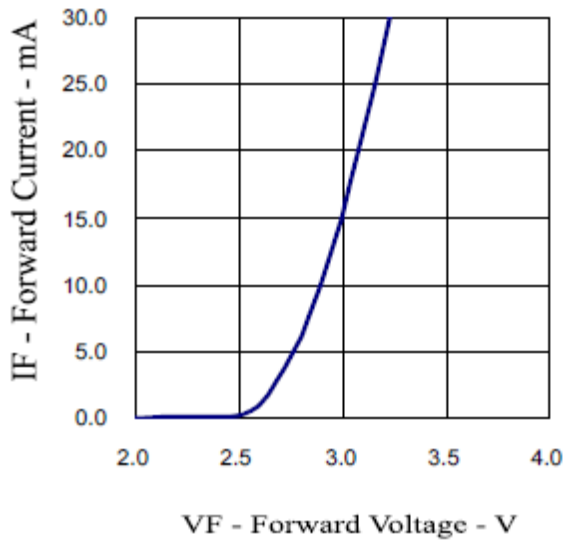
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**RADIATION PATTERN & RECOMMENDED SOLDER PAD**
**Radiation Pattern**

**Recommended Soldering Pad Pattern**


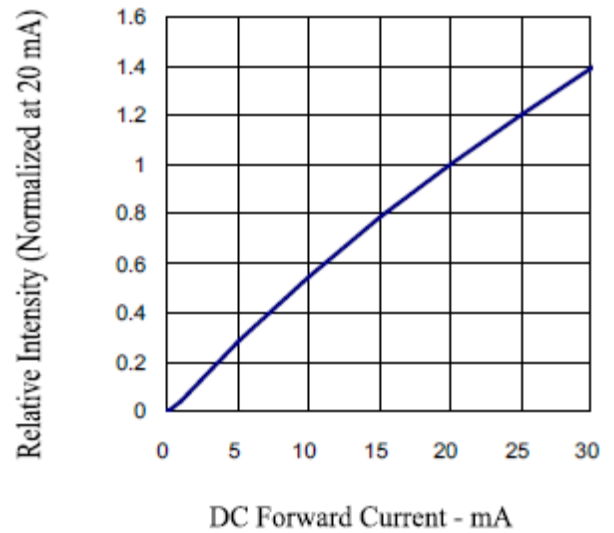
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## OPTICAL CHARACTERISTIC CURVES

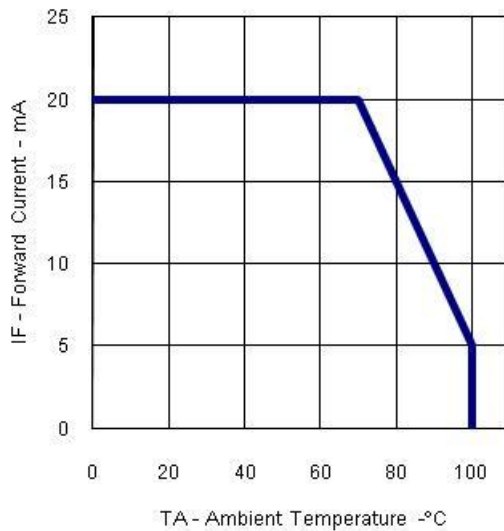
Forward Current vs. Forward Voltage



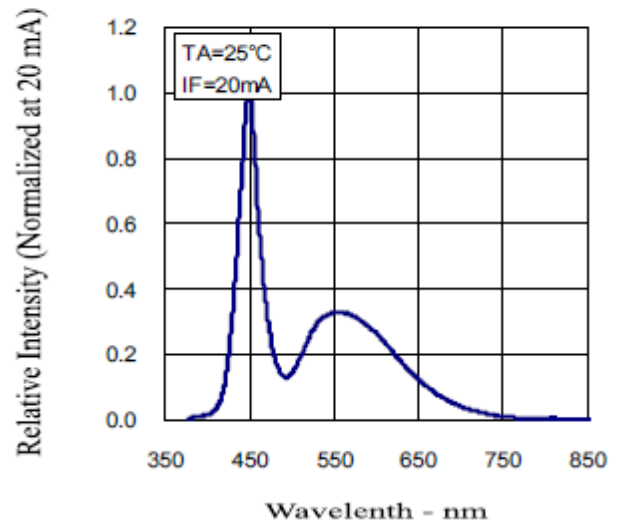
Relative Intensity vs. Forward Current



Forward Current vs. Ambient Temperature



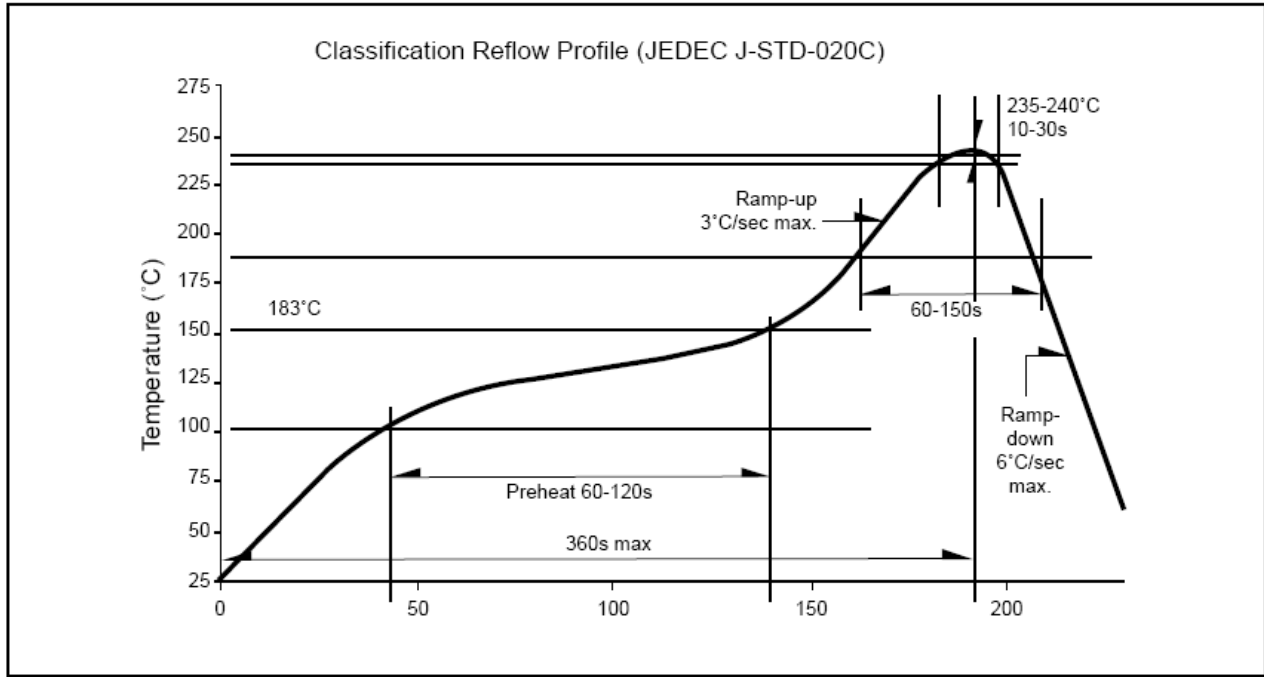
Relative Intensity vs. Wavelength



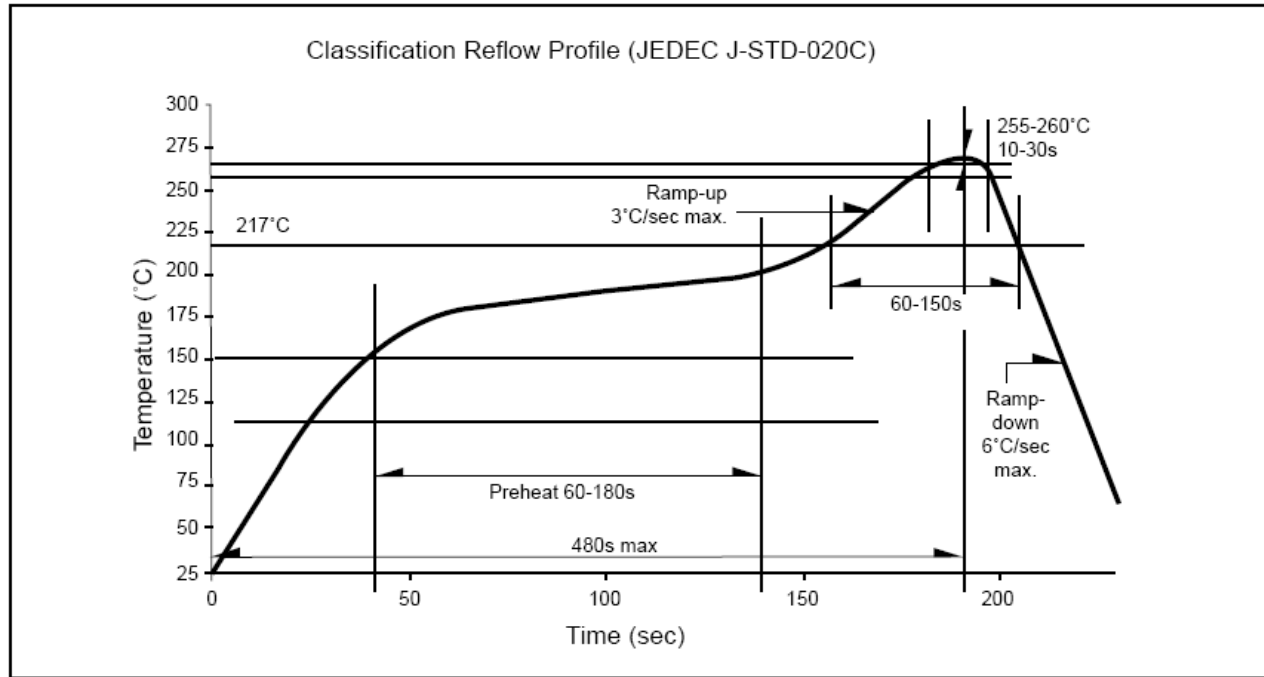
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# SOLDERING CONDITIONS

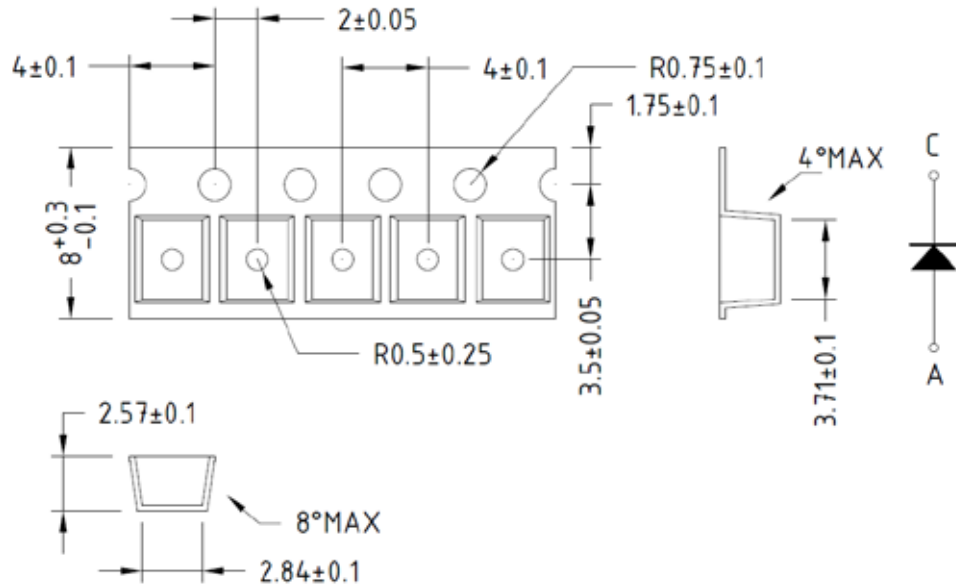
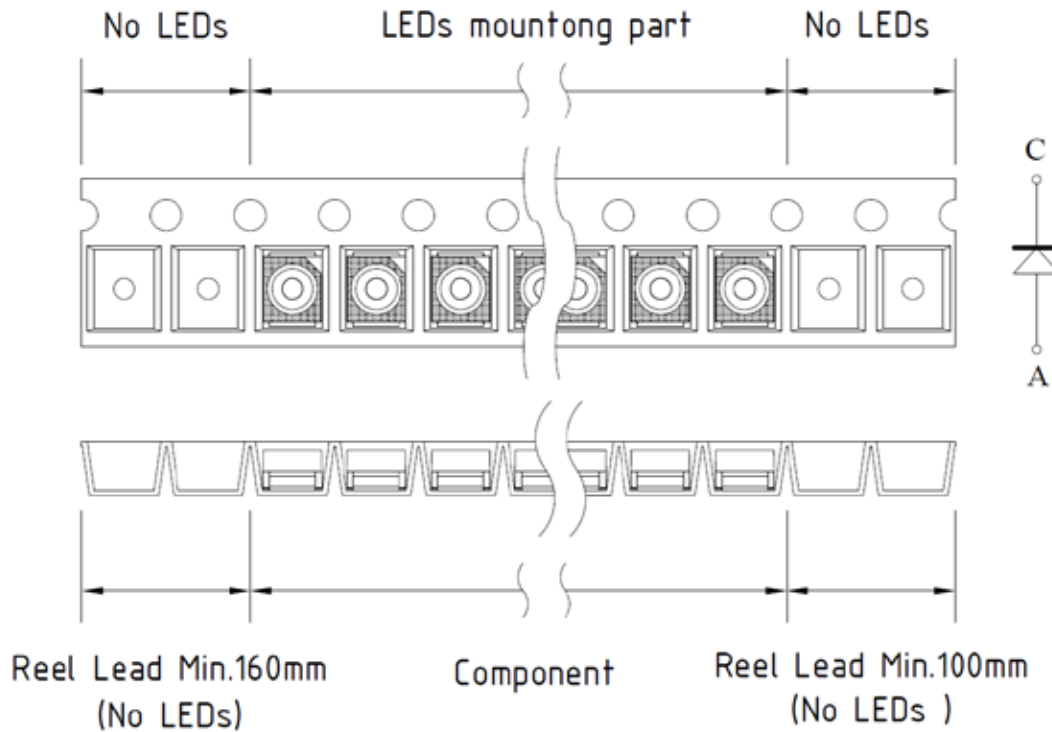
## RECOMMENDED Sn-PB IR-Reflow Soldering Profile



## RECOMMENDED Pb-Free Soldering Profile



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**PACKAGING SPECIFICATION**
**Tape Dimension**

**Tape Leader and Trailer Dimension**


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