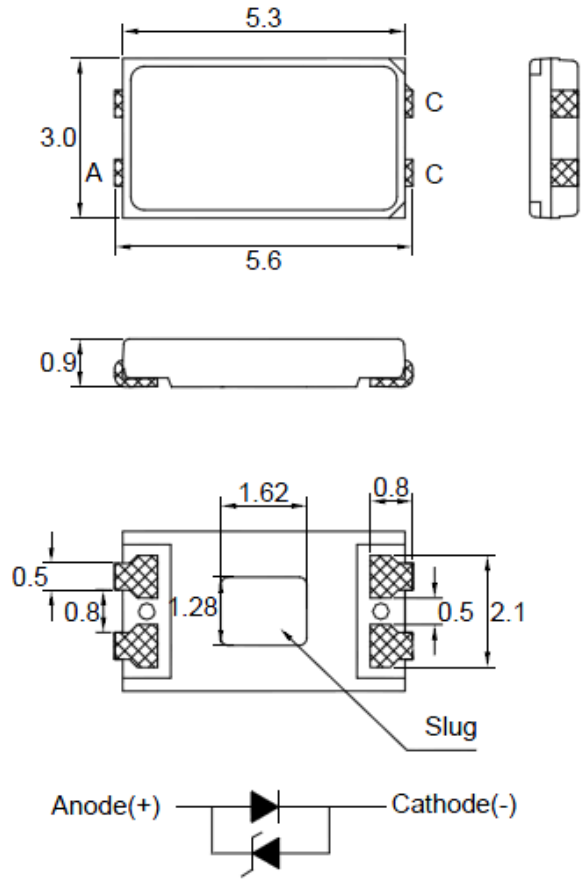


**SPECIFICATIONS** **CSH563NW2C**
**PACKAGE OUTLINES**


- Notes:
1. All dimensions are in millimeter (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
CSH563NW2C	InGaN	Cool White	Yellow	120°



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: [www.chromeled.com](http://www.chromeled.com)

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

Parameter	Symbol	Max Rating	Unit
Forward Current	I <sub>F</sub>	150	mA
ESD Threshold (HBM)	V	2000	v
Reverse Voltage	V	10	v
Junction Temperature	T <sub>J</sub>	125	°C
Operating Temperature Range	T <sub>OP</sub>	-40~+85	°C
Storage Temperature Range	T <sub>STG</sub>	-40~+100	°C
Peak Pulsing Current (1/10 duty f = 10KHz)	I <sub>FP</sub>	200	mA
Soldering Temperature	T <sub>SOL</sub>	Max 260°C for 5 sec Max	

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

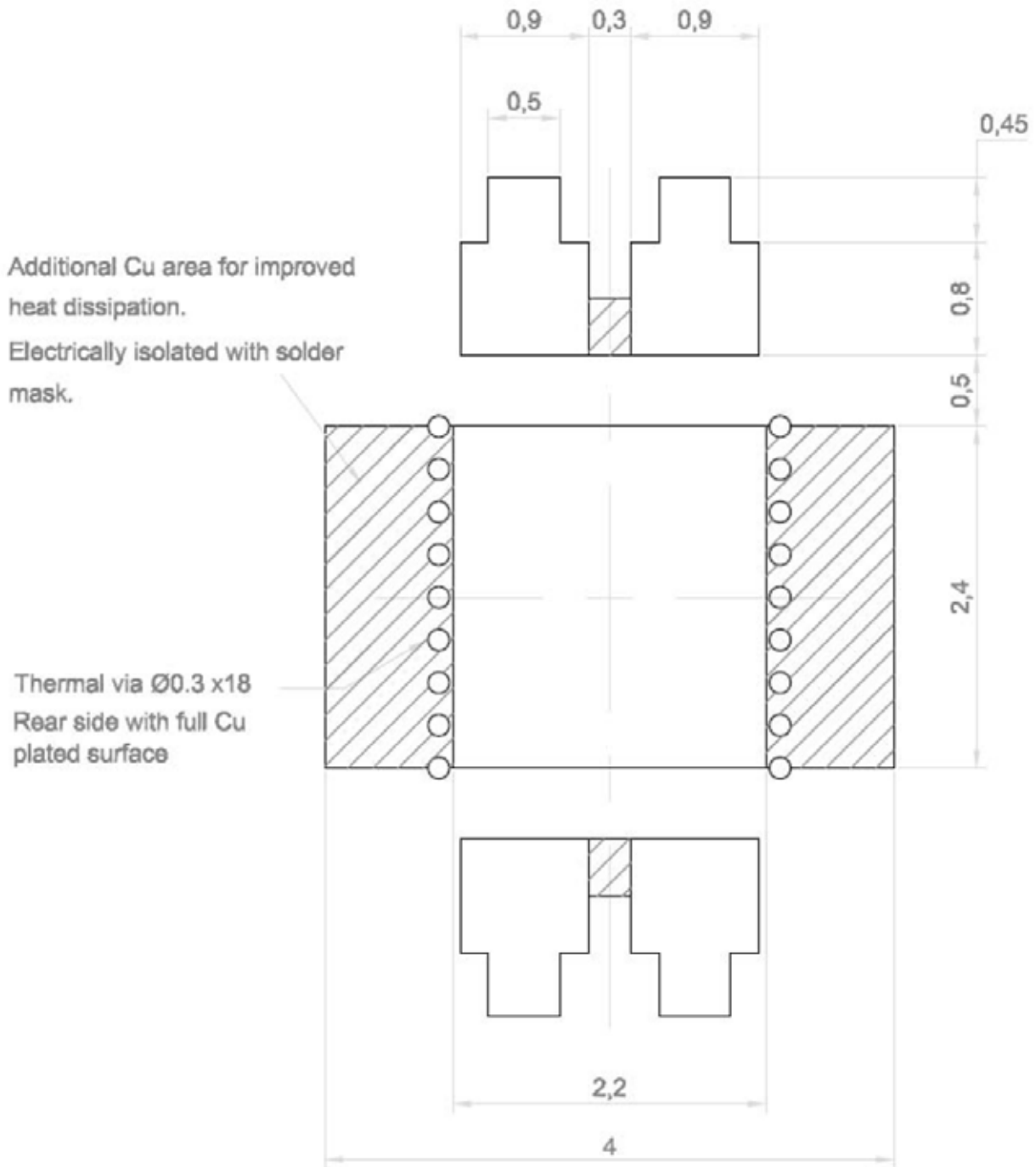
Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Chromaticity Coordinate	X	I <sub>F</sub> = 150mA	-	0.37	-	-
Chromaticity Coordinate	Y	I <sub>F</sub> = 150mA	-	0.37	-	-
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> = 5V	-	-	10	μA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 150mA	-	3.3	3.8	V
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> = 150mA	33	37	-	lm

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



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: [www.chromeled.com](http://www.chromeled.com)

RECOMMENDED SOLDER PAD



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: [www.chromeled.com](http://www.chromeled.com)

OPTICAL CHARACTERISTIC CURVES

Fig.1 Forward current vs. Forward Voltage

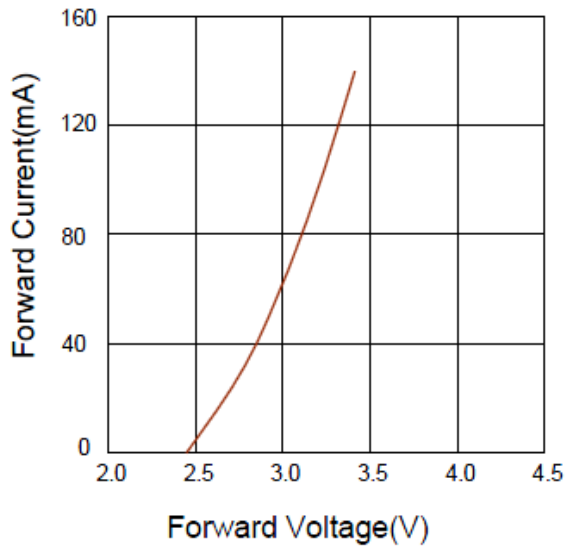


Fig.3 Forward current vs. Luminous Intensity

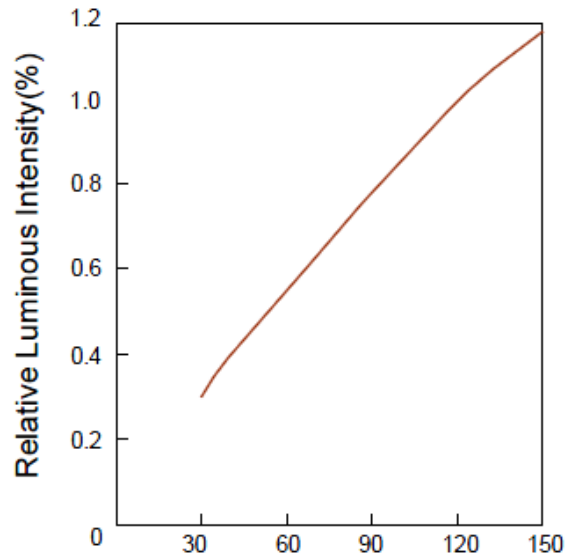


Fig.5 Luminous Spectrum (Ta=25°C)

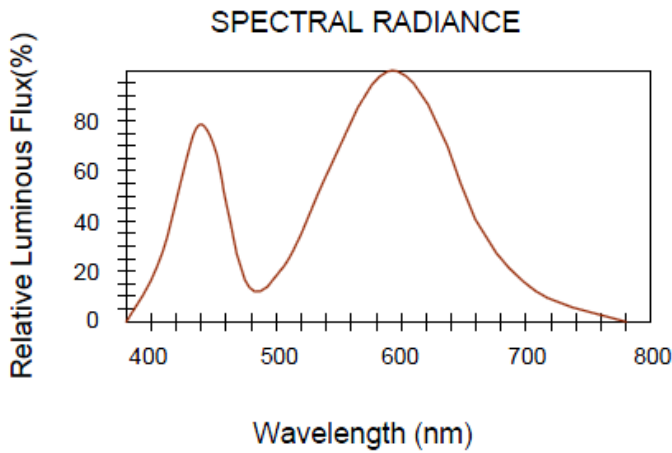
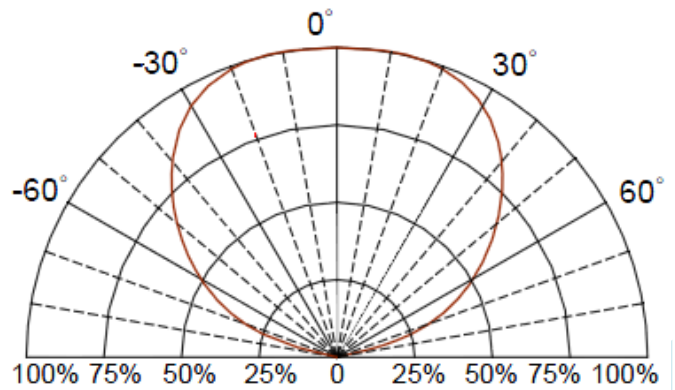


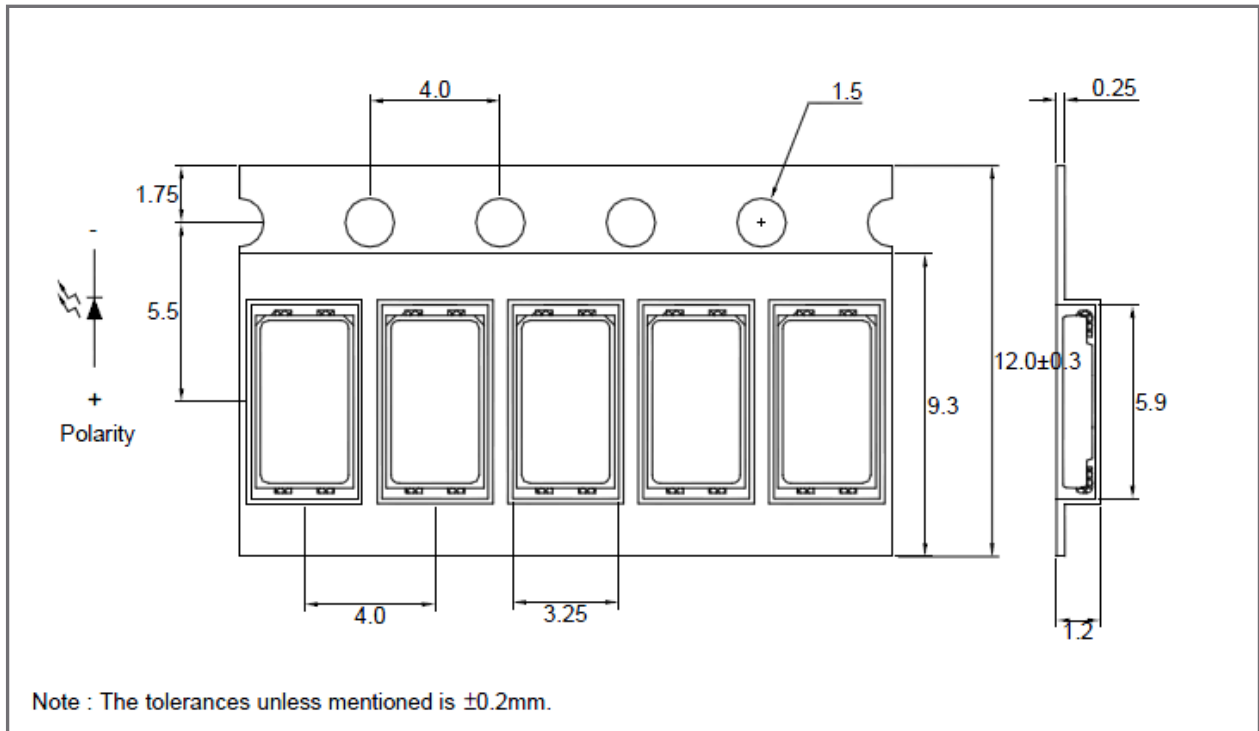
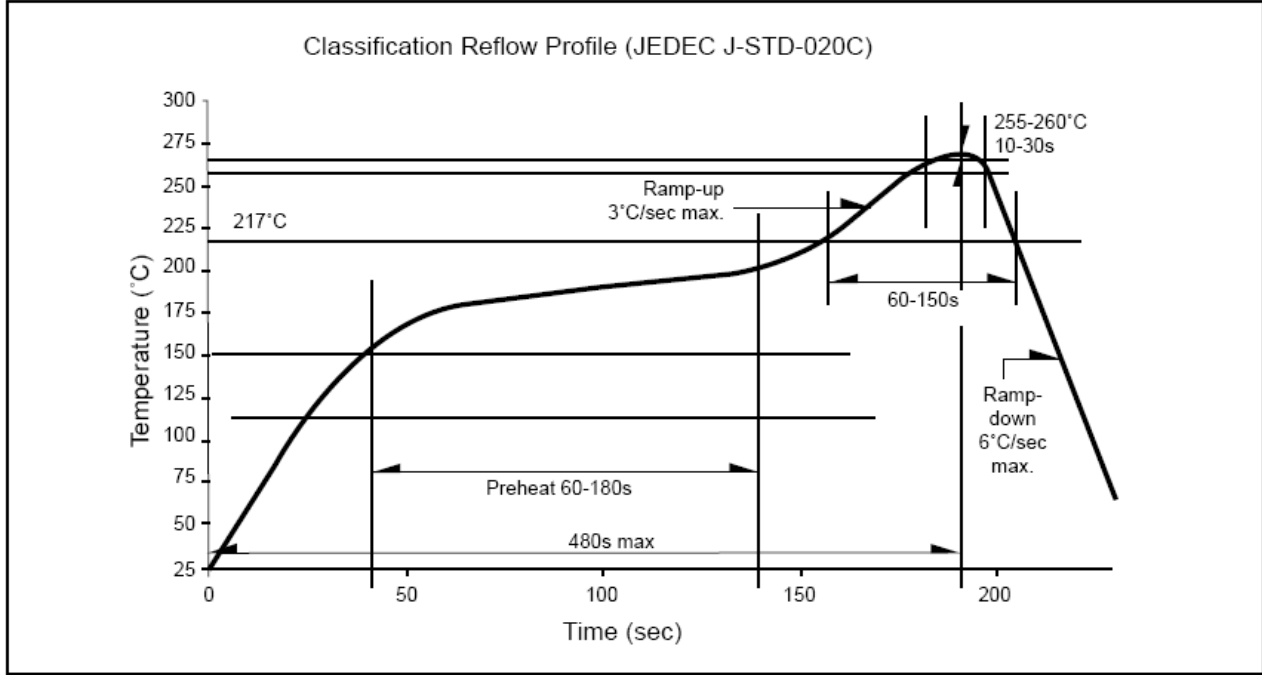
Fig.6 Directivity Radiation



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: [www.chromeled.com](http://www.chromeled.com)

## SOLDERING CONDITIONS & TAPING ORIENTATION

### RECOMMENDED Pb-Free Soldering Profile



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: [www.chromeled.com](http://www.chromeled.com)