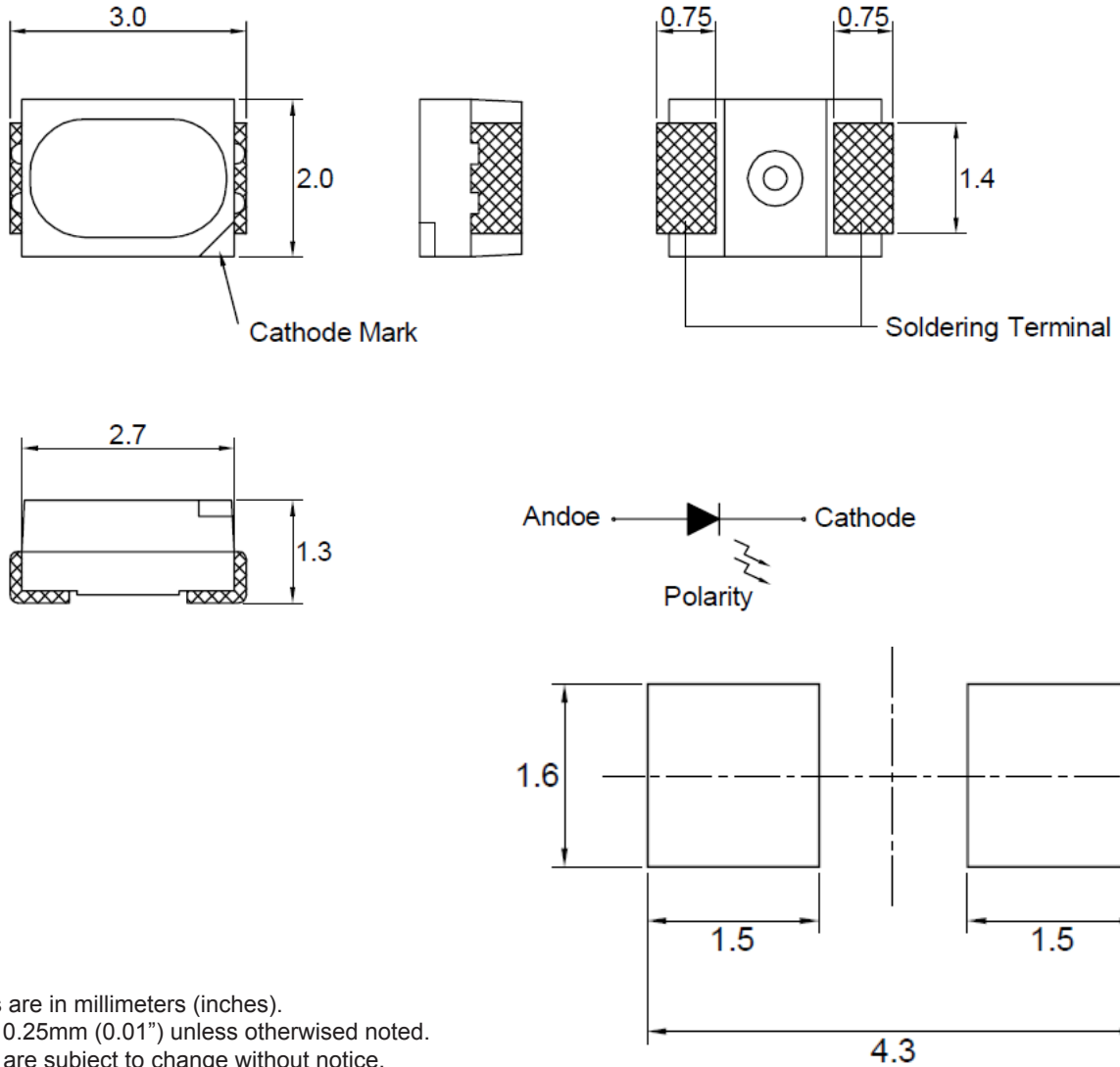


SPECIFICATION **CSP128CW2C**
PACKAGE OUTLINES


- 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
CSP128CW2C	InGaN	White	Yellow Diffused	120°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	IF	30	mA
Reverse Current @ 5V	IR	50	μA
Operating Temperature Range	TOP	-20~+80	°C
Storage Temperature Range	TSTG	-30~+100	°C
Peak Pulsing Current (1/8 duty f = 10KHz)	IFP	100	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	2300	2500	-	Mcd
Forward Voltage	VF	IF = 20mA	-	3.4	4.0	V
Reverse Leakage Current	IR	VR = 5V	-	-	10	μA
Viewing Angle at 50% Iv	2θ1/2	IF = 20mA	-	120	-	Deg
CIE Coordinates	X	IF = 20mA	0.31	-	0.35	-
	Y		0.32	-	0.37	-

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



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OPTICAL CHARACTERISTIC CURVES

Fig.1 Forward current vs. Forward Voltage

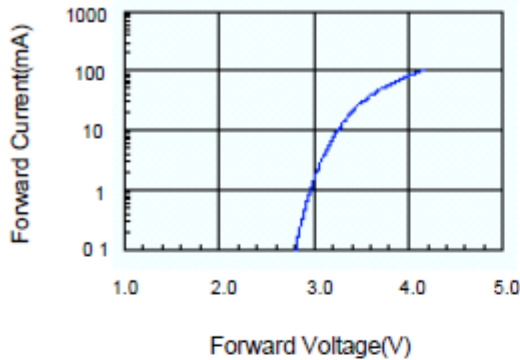


Fig.2 Relative Intensity vs. Forward Current

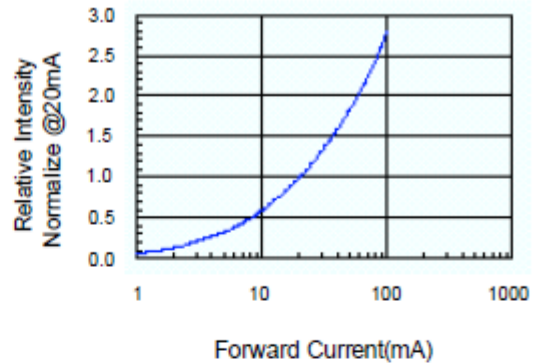


Fig.3 Forward Voltage vs. Temperature

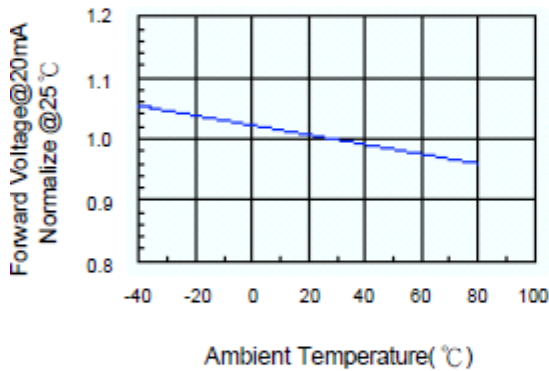


Fig.4 Relative Intensity vs. Temperature

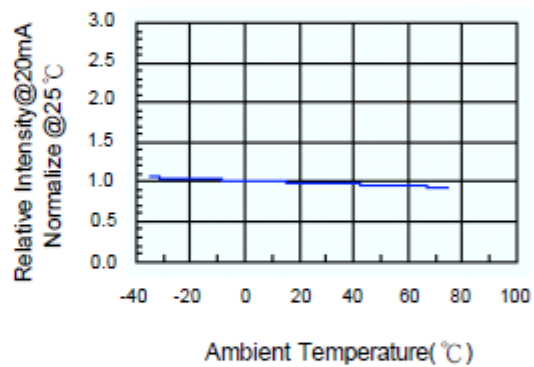


Fig.5 Luminous Spectrum (Ta=25 °C)

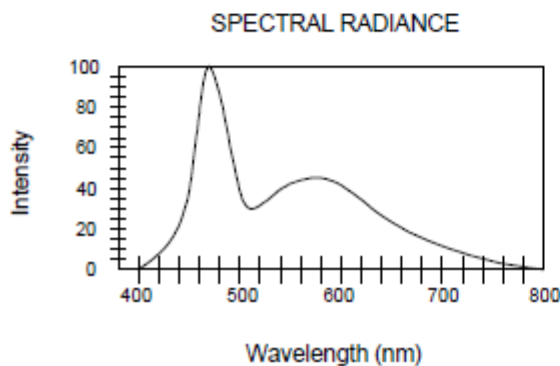
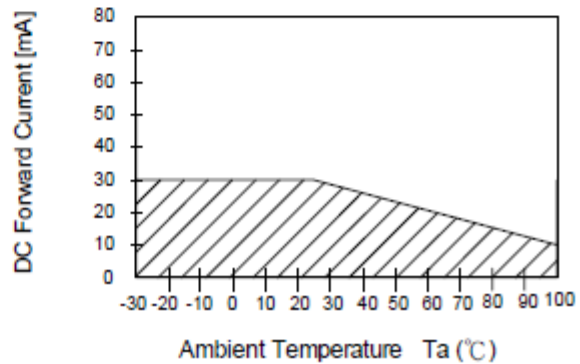
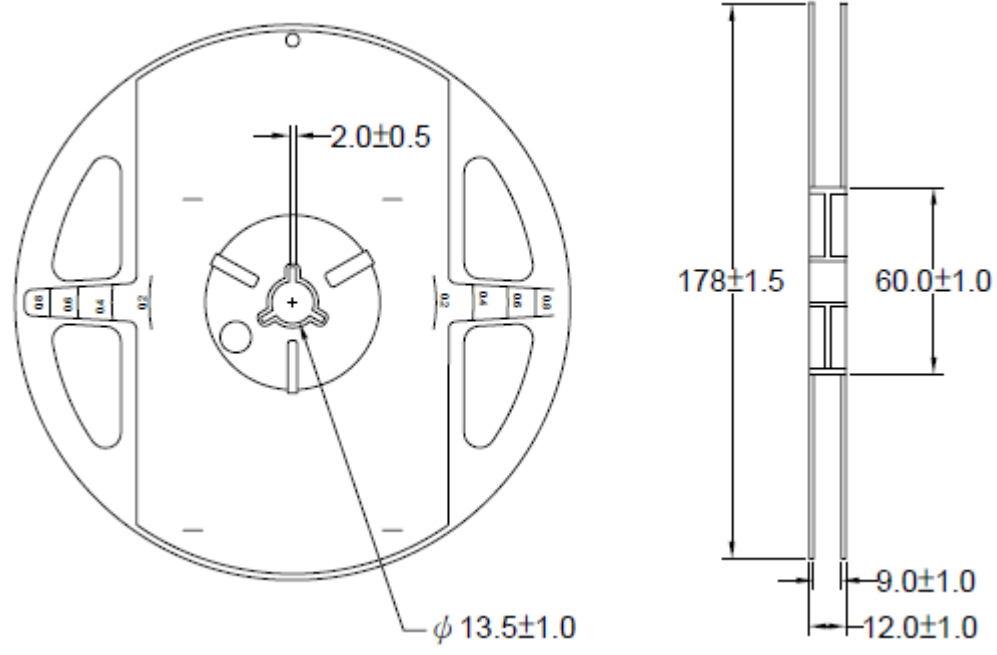
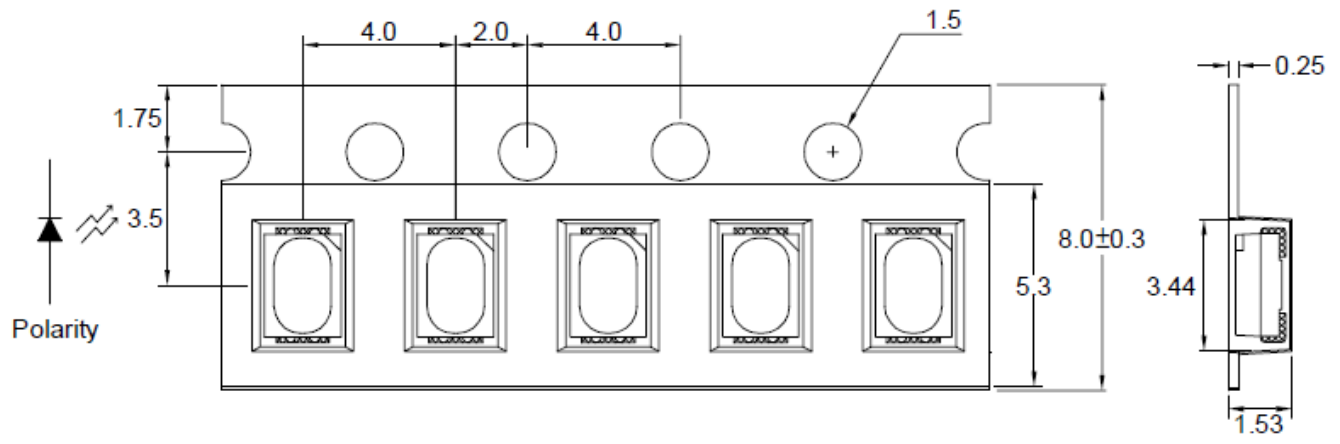


Fig.6 Forward Current vs. Temperature




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PACKAGING SPECIFICATION



- Notes:
1. Tolerance unless mentioned is ±0.1mm, Angle ±0.5, Unit=mm.
 2. 2000pcs / 7" Reel; 8.0mm Tape



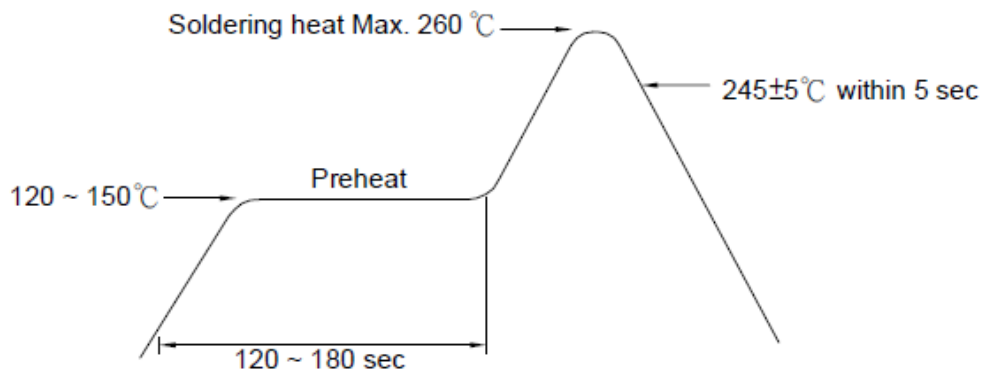
RoHS Compliant
Lead Free

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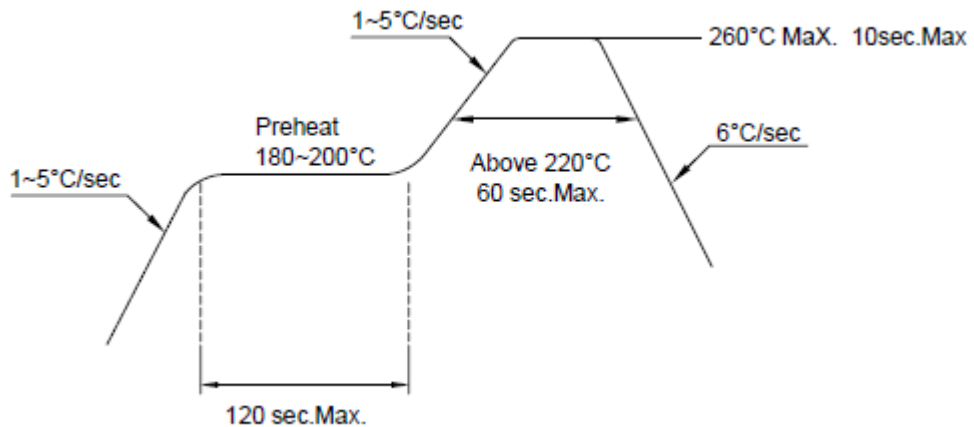
SOLDERING CONDITIONS

RECOMMENDED SOLDERING CONDITIONS

1. Hand Solder
Basic spec is $\leq 320\text{ }^{\circ}\text{C}$ 3 sec one time only.
2. Wave Solder



3. PB-Free Reflow Solder



- Reflow soldering should not be done more than two times.
- When soldering, do not put stress on LEDs during heating.
- After soldering, do not warp the circuit board.



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