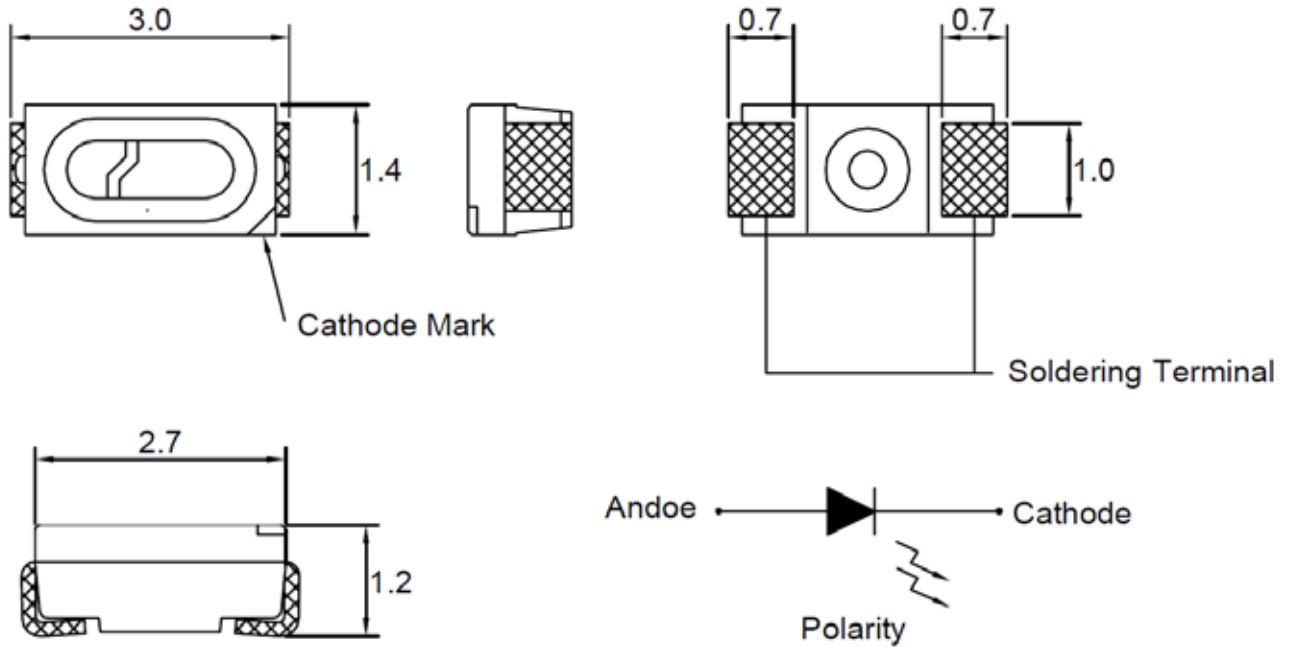


**SPECIFICATION** **CSP125W3C**
**PACKAGE OUTLINES**


- 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
CSP125W3C	InGaN	White	Water Clear	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>	50	μA
Power Dissipation	P <sub>d</sub>	120	mW
Operating Temperature Range	T <sub>OP</sub>	-20~+80	°C
Storage Temperature Range	T <sub>STG</sub>	-30~+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)**

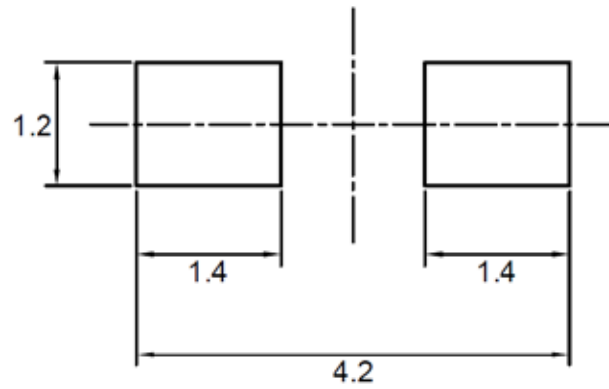
Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> = 20mA	1900	2000	-	mcd
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20mA	-	3.2	3.6	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> = 5V	-	-	50	μA
Viewing Angle at 50% I <sub>v</sub>	2θ <sub>1/2</sub>	I <sub>F</sub> = 20mA	-	120	-	Deg
Chromaticity Coordinate	X	I <sub>F</sub> = 20mA	0.28	-	0.31	-
Chromaticity Coordinate	Y	I <sub>F</sub> = 20mA	0.25	-	0.34	-

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



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## RECOMMENDED SOLDER PAD



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## OPTICAL CHARACTERISTIC CURVES

Fig.1 Forward current vs. Forward Voltage

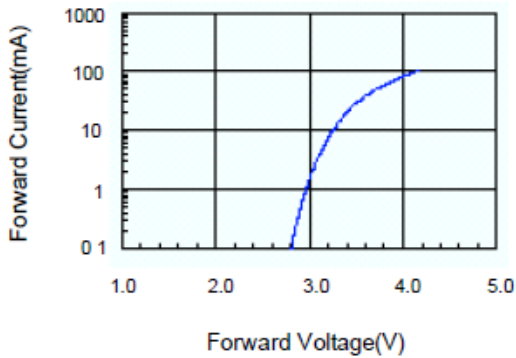


Fig.2 Relative Intensity vs. Forward Current

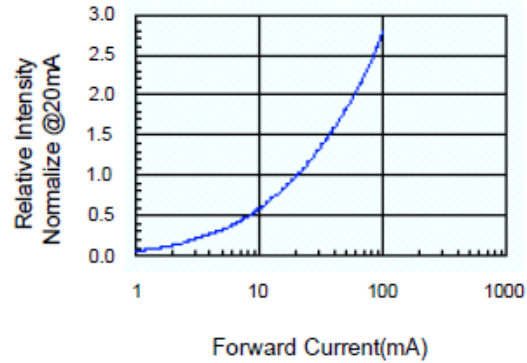


Fig.3 Forward Voltage vs. Temperature

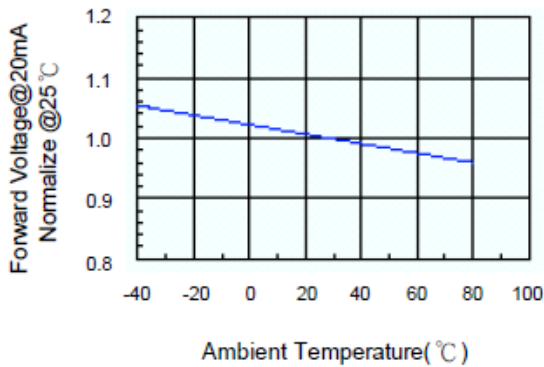


Fig.4 Relative Intensity vs. Temperature

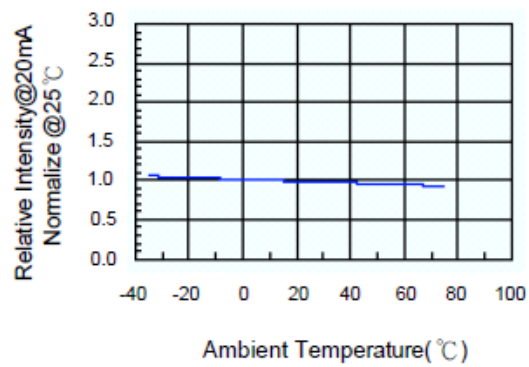


Fig.5 Luminous Spectrum (Ta=25 °C)

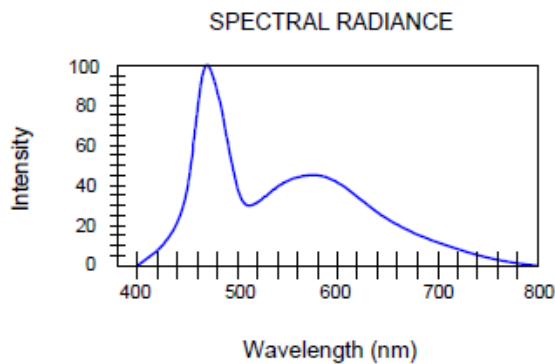
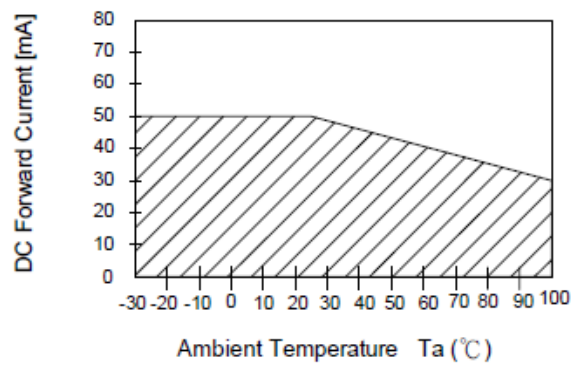
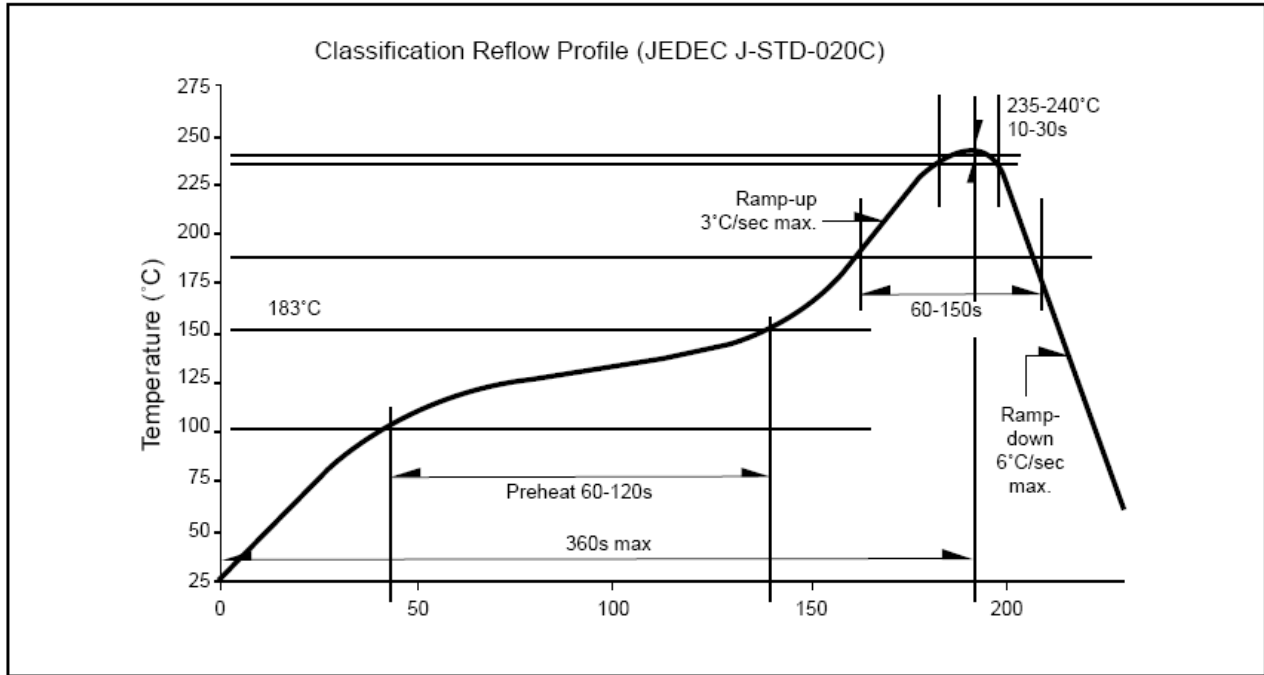
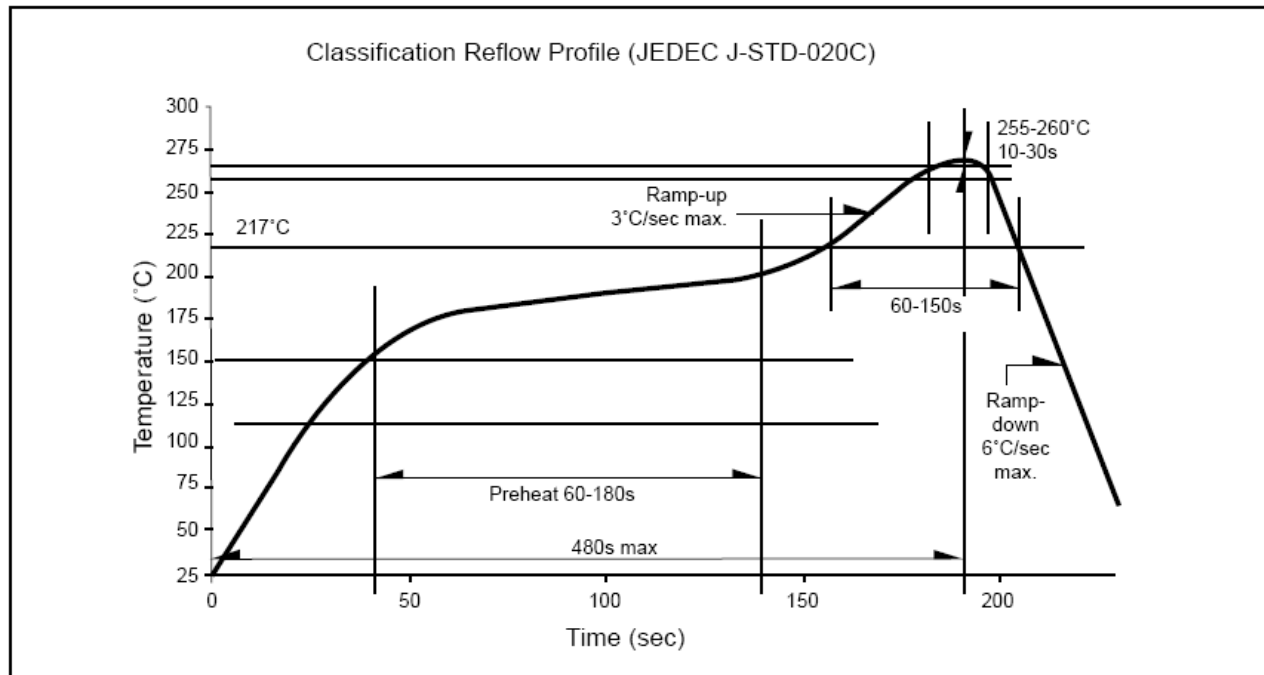


Fig.6 Forward Current vs. Temperature



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**SOLDERING CONDITIONS**
**RECOMMENDED Sn-PB IR-Reflow Soldering Profile**

**RECOMMENDED Pb-Free Soldering Profile**


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