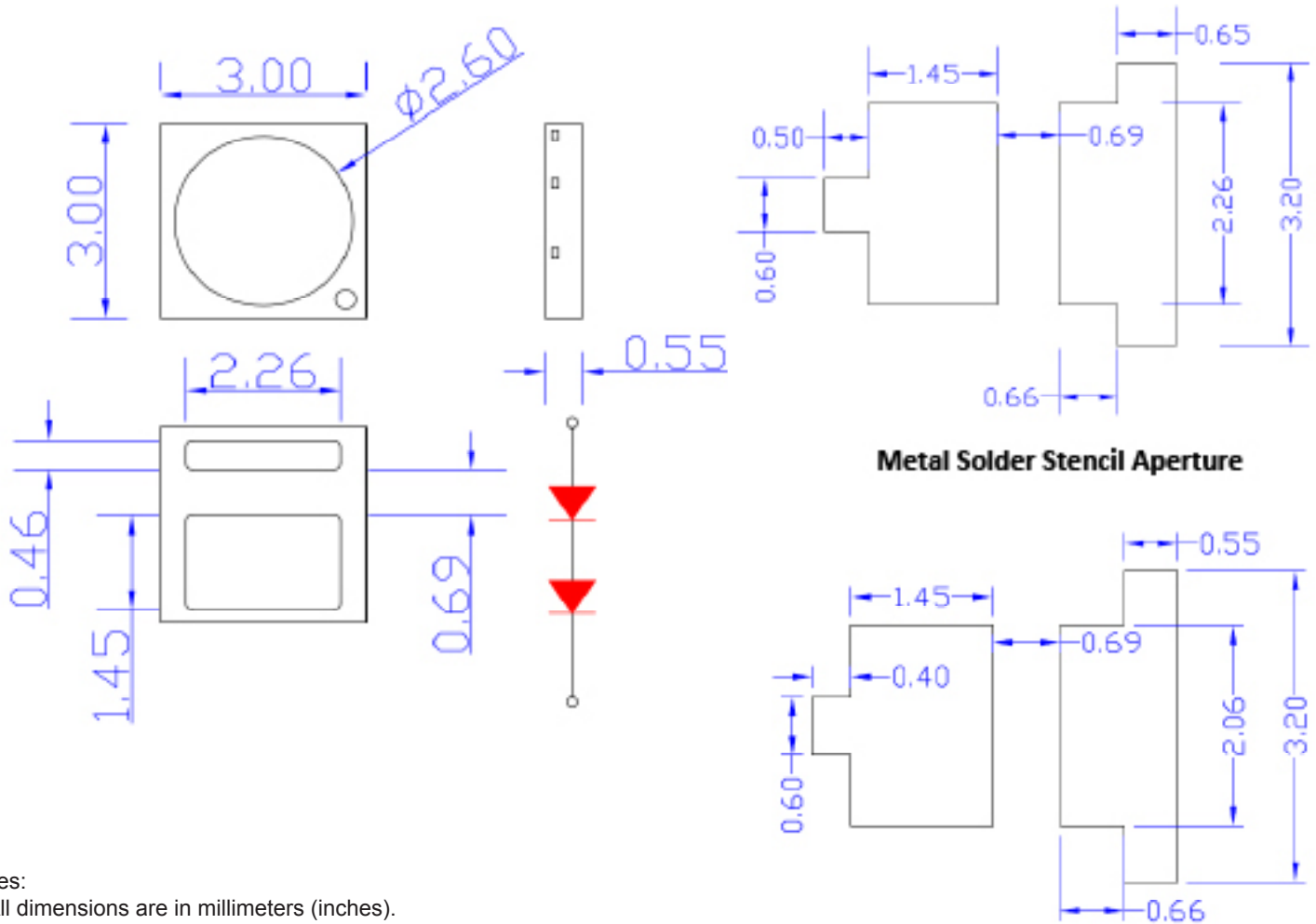


SPECIFICATION
CSHF1212W4C65
PACKAGE OUTLINES


- 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
CSHF1212W4C65	InGaN	White	Water Clear	110°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	I _F	165	mA
Reverse Voltage	V _R	10	V
Operating Temperature Range	T _{OP}	-40~+85	°C
Storage Temperature Range	T _{STG}	-40~+100	°C
Peak Pulsing Current (1/10 duty f = 10KHz)	I _{FP}	240	mA
Soldering Temperature	T _{SOL}	Max 260°C for 10 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	I _v	I _F = 150mA	110	126	-	lm
Forward Voltage	V _F	I _F = 150mA	-	6.2	7.0	V
Reverse Leakage Current	I _R	V _R = 5V	-	-	10	μA
Viewing Angle at 50% I _v	2θ _{1/2}	I _F = 150mA	-	110	-	Deg
Color Rendering Index	CRI	I _F = 150mA	80	83	90	-
Correlated Color Temperature	CCT	I _F = 150mA	6020	-	7040	K

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



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OPTICAL CHARACTERISTIC CURVES

Fig.1-Forward Voltage Vs. Forward Current Intensity

伏安特性曲线

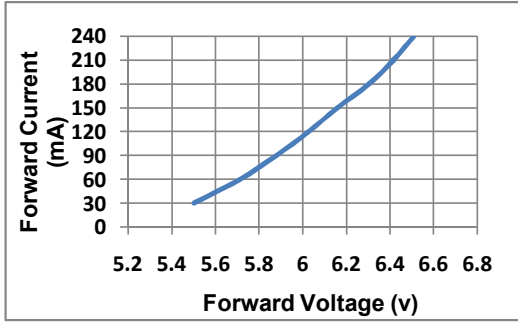


Fig.2-Forward Current Vs. Relative

正向电流与相对光强特性曲线

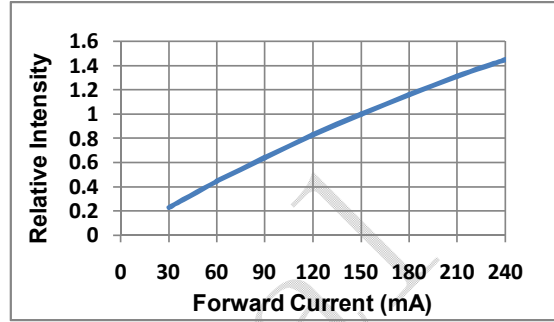


Fig.3-Ambient Temperature Vs. Relative Intensity

环境温度与相对光强特性曲线

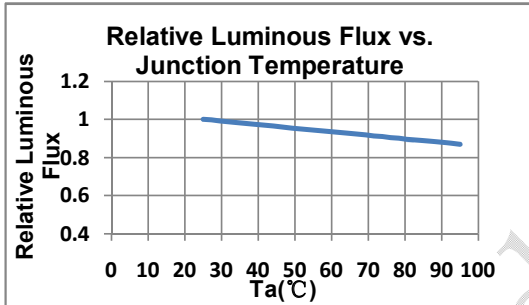


Fig.4-LED Temperature Vs. Forward Current

灯珠温度与正向电流特性曲线

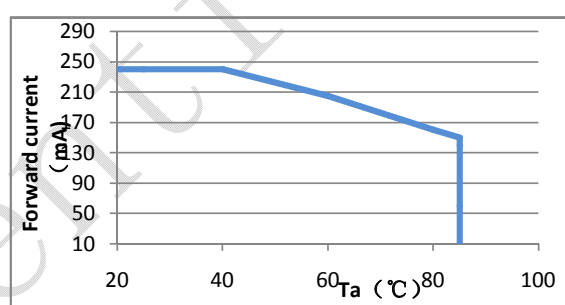


Fig.5-Forward Voltage Vs. Ambient Temperature

电压与环境温度特性曲线

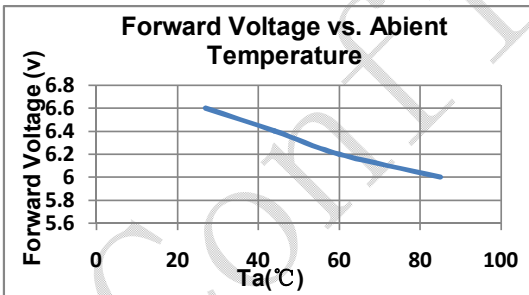


Fig.6-Radiation diagram

辐射特性曲线

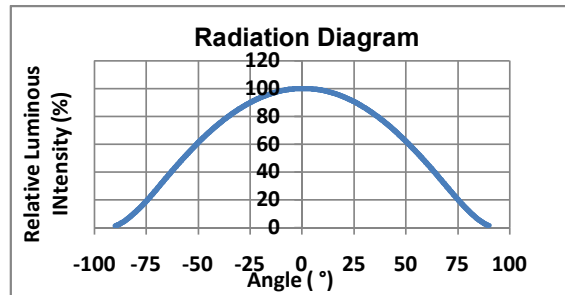


Fig.7-Chromaticity Coordinate Vs. Ta

色坐标与环境温度特性曲线

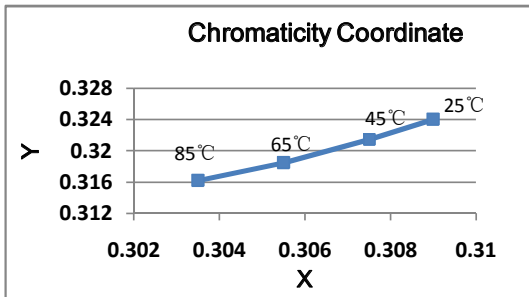
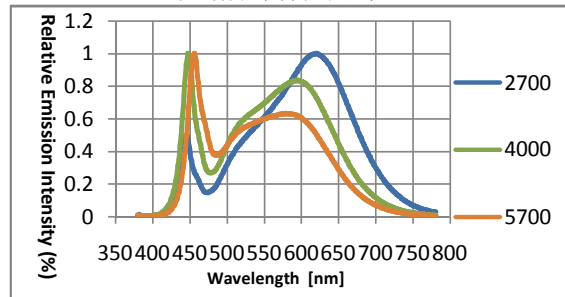


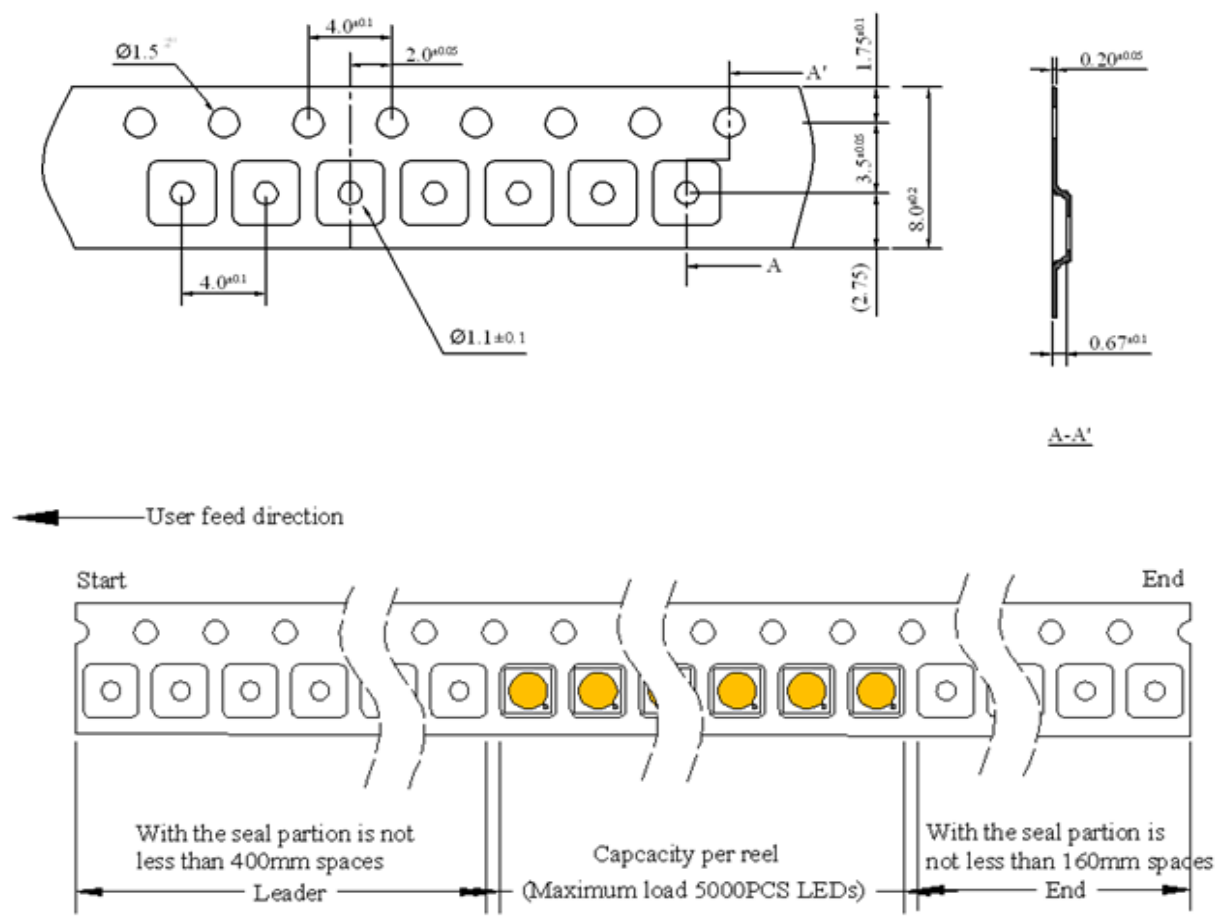
Fig.8- Spectrum Distribution

光谱分布特性曲线




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PACKAGING SPECIFICATION

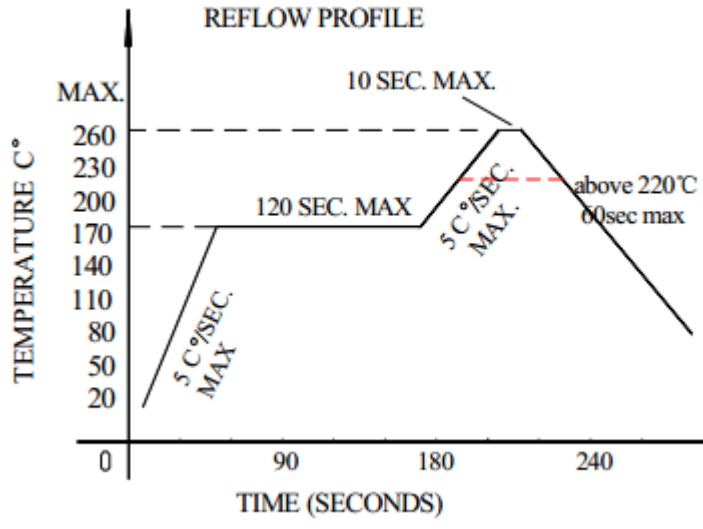


- Quantity : Max 5000pcs/Reel
- Cumulative Tolerance : Cumulative Tolerance/10 pitches to be $\pm 0.2\text{mm}$
- Adhesion Strength of Cover Tape Adhesion strength to be 0.1-0.7N when the cover tape is turned off from the carrier tape at the angle of 10° to the carrier tape.
- Package : P/N, Manufacturing data Code No. and Quantity to be indicated on a damp proof Package.



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SOLDERING CONDITIONS



Reflow soldering		Hand Soldering	
Pre-heat	160~180°C	Temperature	300°C Max
Pre-heat time	120 Seconds Max	Soldering time	3 second Max
Peak temperature	260°C Max		
Soldering time	10 Seconds Max		
Condition	Refer to Temperature-profile		



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