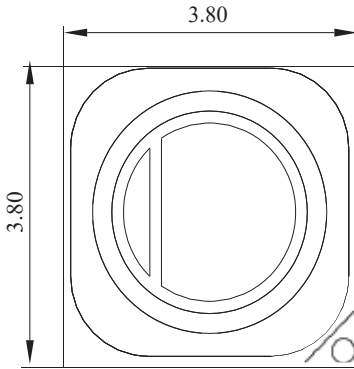
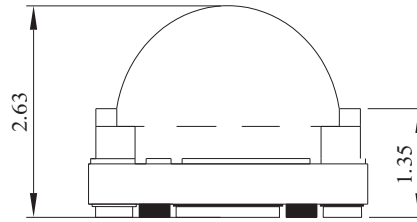
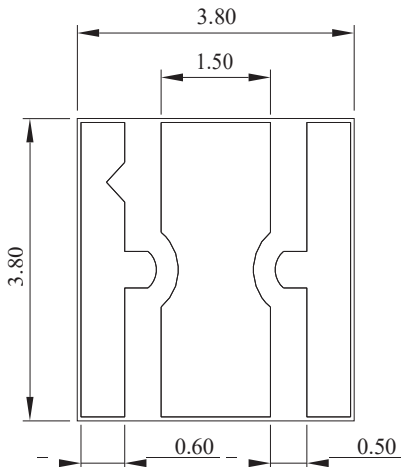
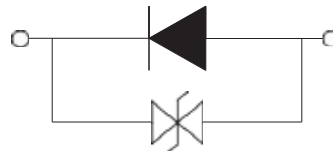
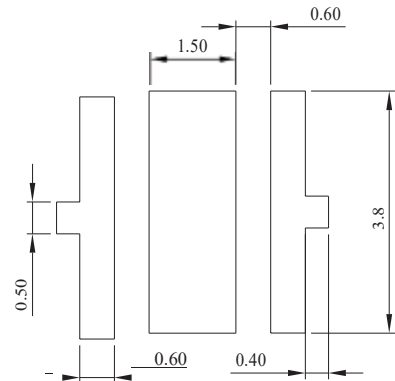


SPECIFICATION
CSHDF1515UV365QC
PACKAGE OUTLINES

Fig.1-1 Top view 正面视图

Fig.1-2 Side view 侧面视图

Fig.1-3 Bottom view 背面视图

Polarity
Fig.1-4 Polarity 极性

Fig.1-5 Soldering patterns 推荐焊盘
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
CSHDF1515UV365QC	InGaN	Ultraviolet	Water Clear	120°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	IF	1200	mA
Reverse Current @ 5V	IR	5	μA
Power Dissipation	Pd	3-4	W
Operating Temperature Range	TOP	-40~+85	°C
Storage Temperature Range	TSTG	-40~+100	°C
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	
Radiant Flux	ΦE	IF = 1000mA	1545	-	1825	mW
Forward Voltage	VF	IF = 1000mA	3.4	3.6	3.8	V
Thermal Resistance	RTHJ-S	IF = 1000mA	-	4.5	-	C/W
Peak Wavelength	nm	IF = 1000mA	-	365	-	nm

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



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OPTICAL CHARACTERISTIC CURVES

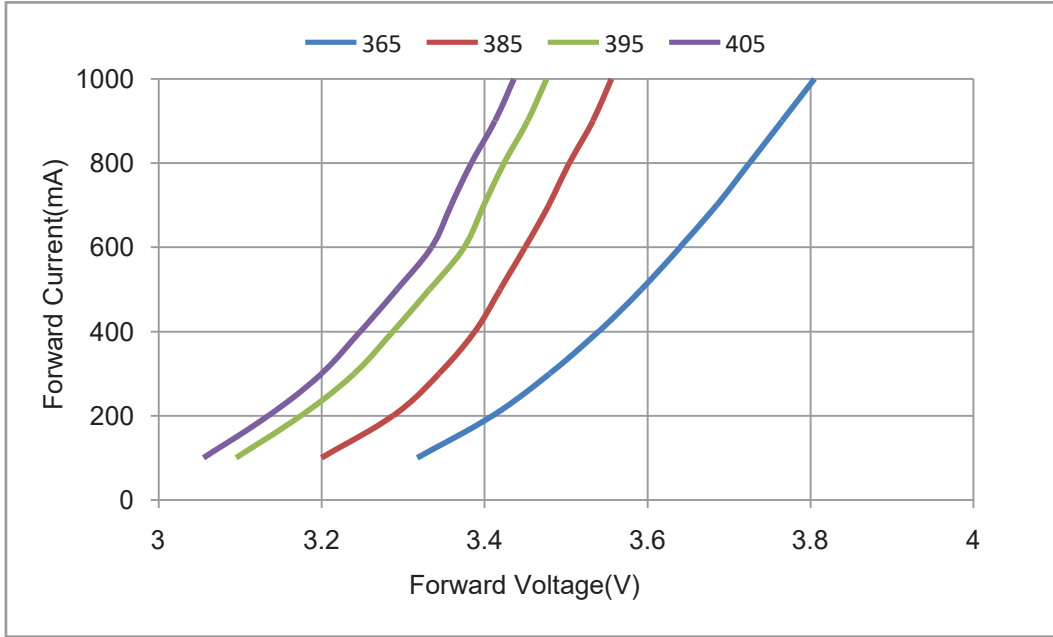


Fig.1- Forward Voltage Vs. Forward Current 伏安特性曲线

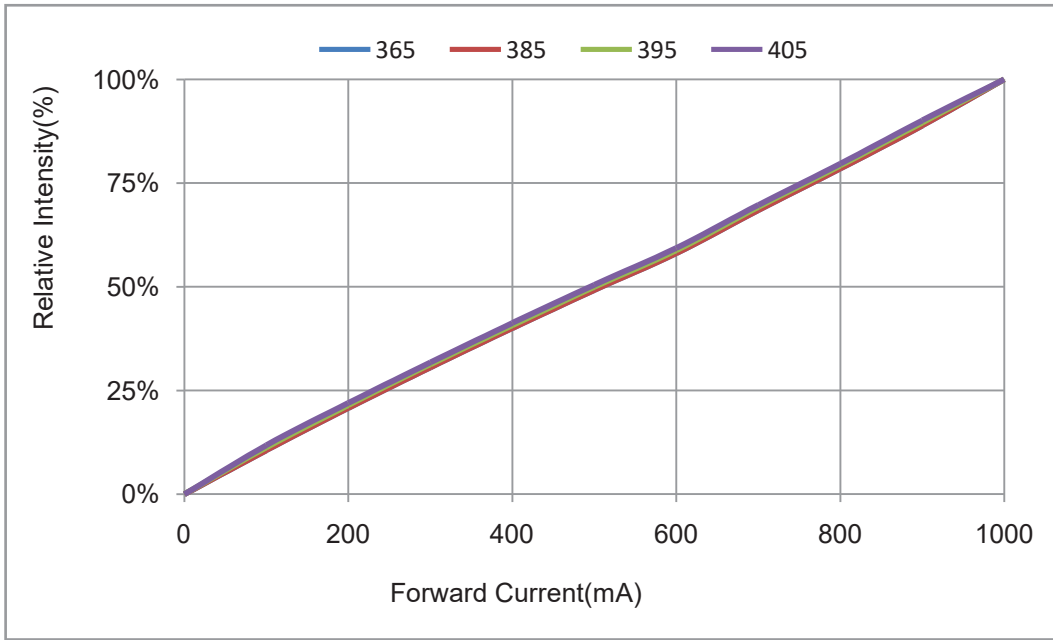


Fig.2- Forward Current Vs. Relative Power 正向电流与相对光功率特性曲线



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OPTICAL CHARACTERISTIC CURVES

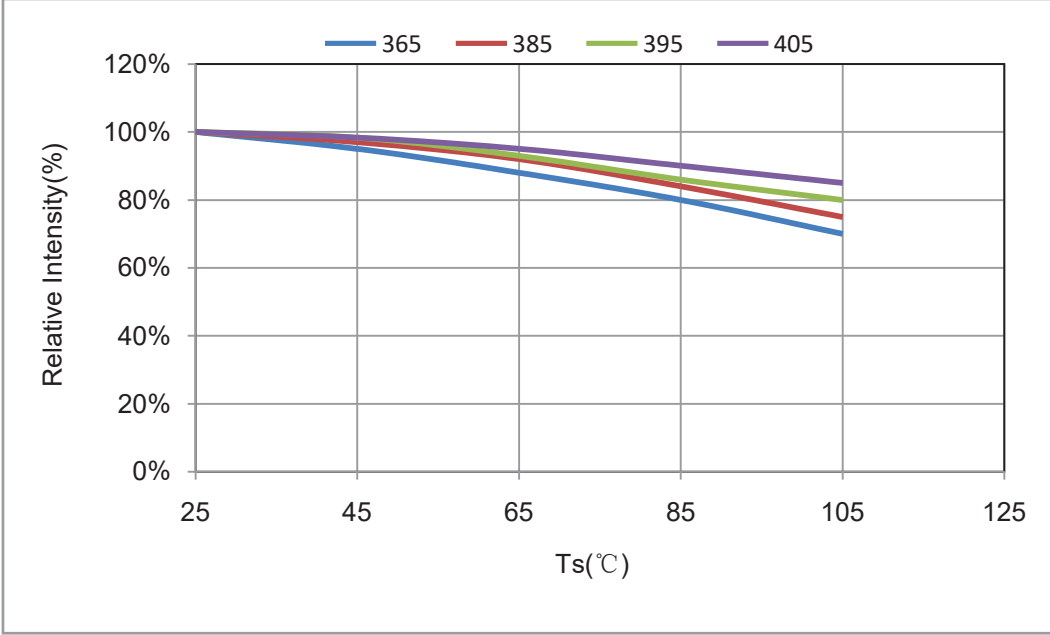


Fig.3-Solder Temperature VS. Relative Power 焊盘温度与相对光功率曲线

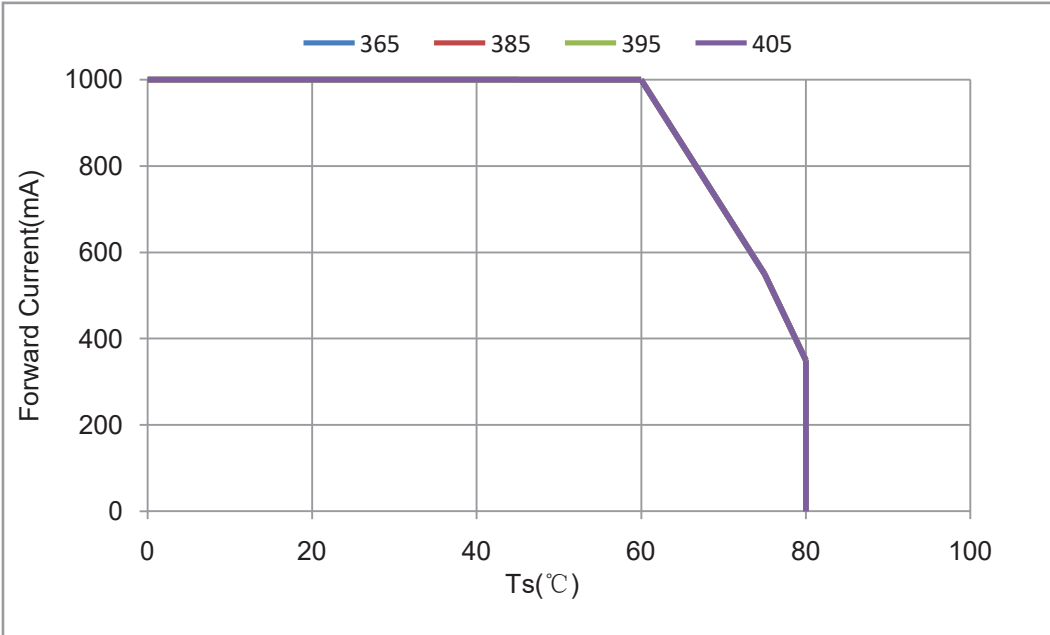



Fig.4-Ts Temperature VS. Forward Current 焊盘温度与正向电流特性曲线



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OPTICAL CHARACTERISTIC CURVES

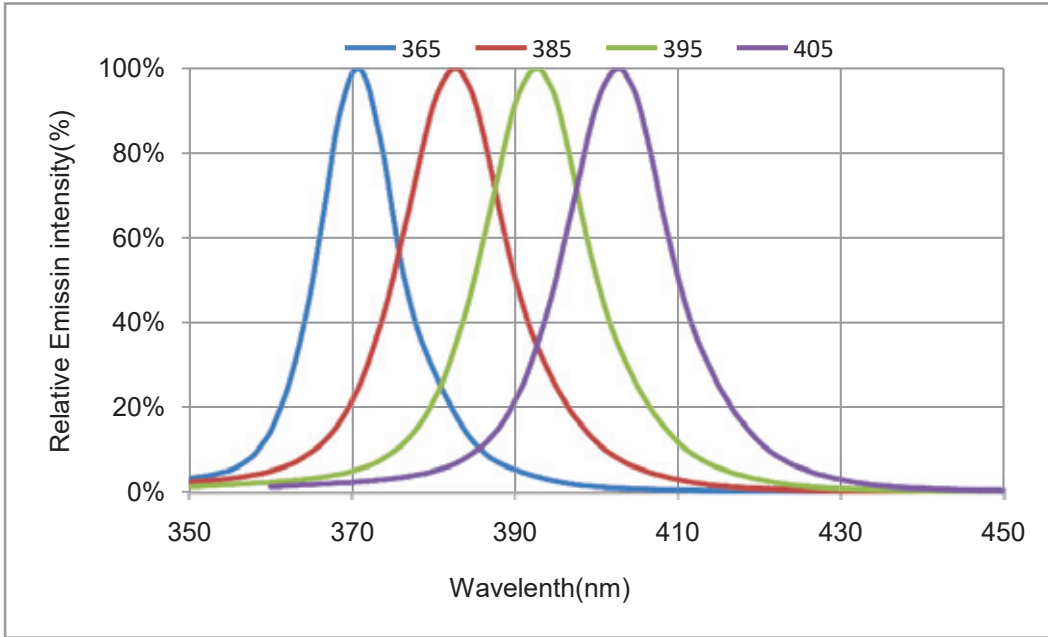


Fig.5-Spectrum Distribution 光谱分布特性曲线

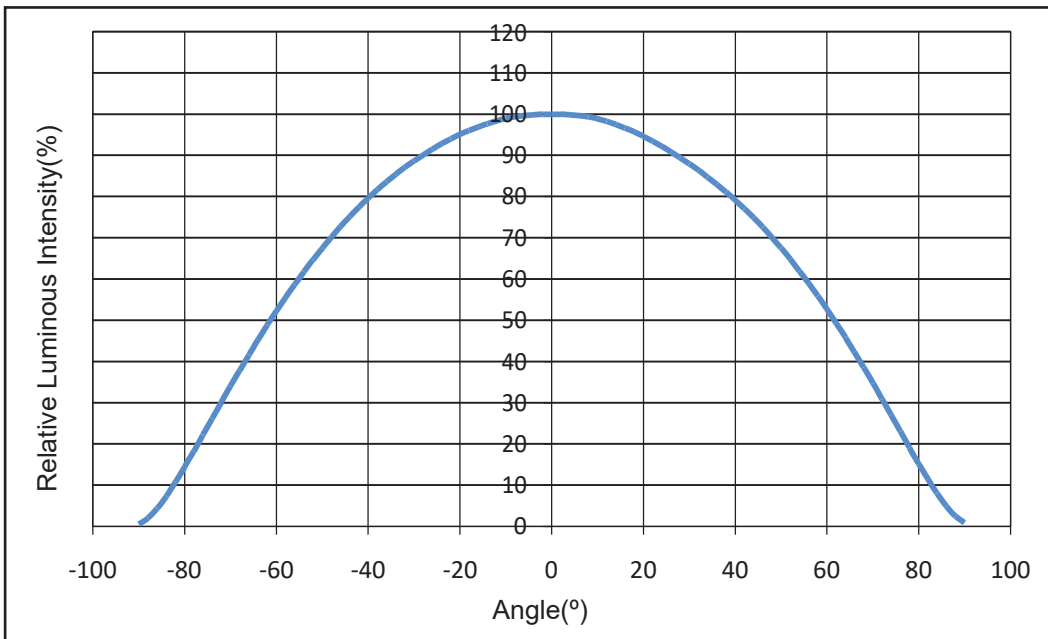


Fig.6- Radiation Diagram 辐射特性曲线



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PACKAGING SPECIFICATION

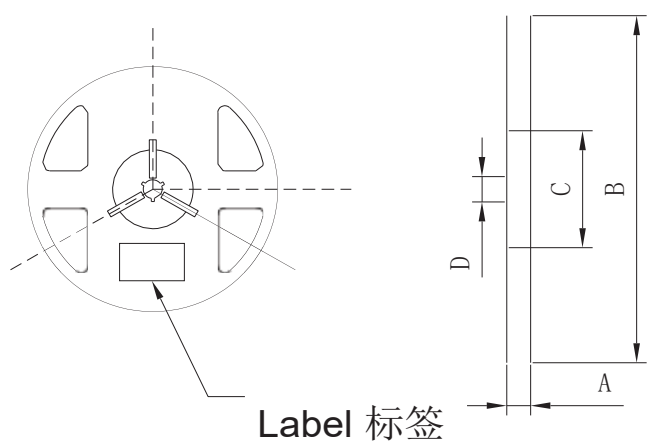
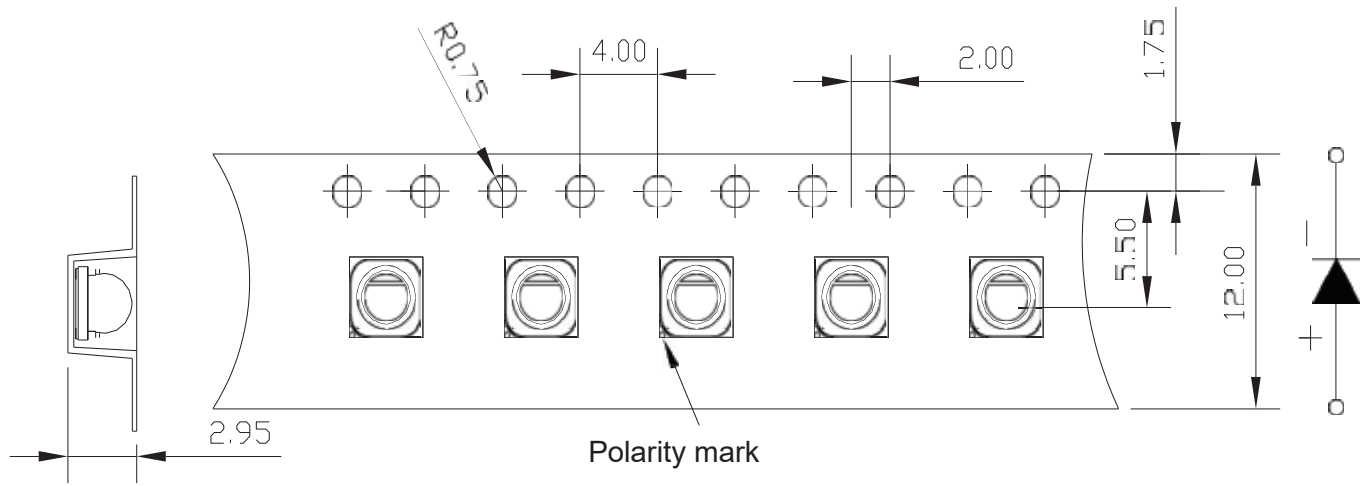


Table 2-1 Reel Dimension 卷盘尺寸

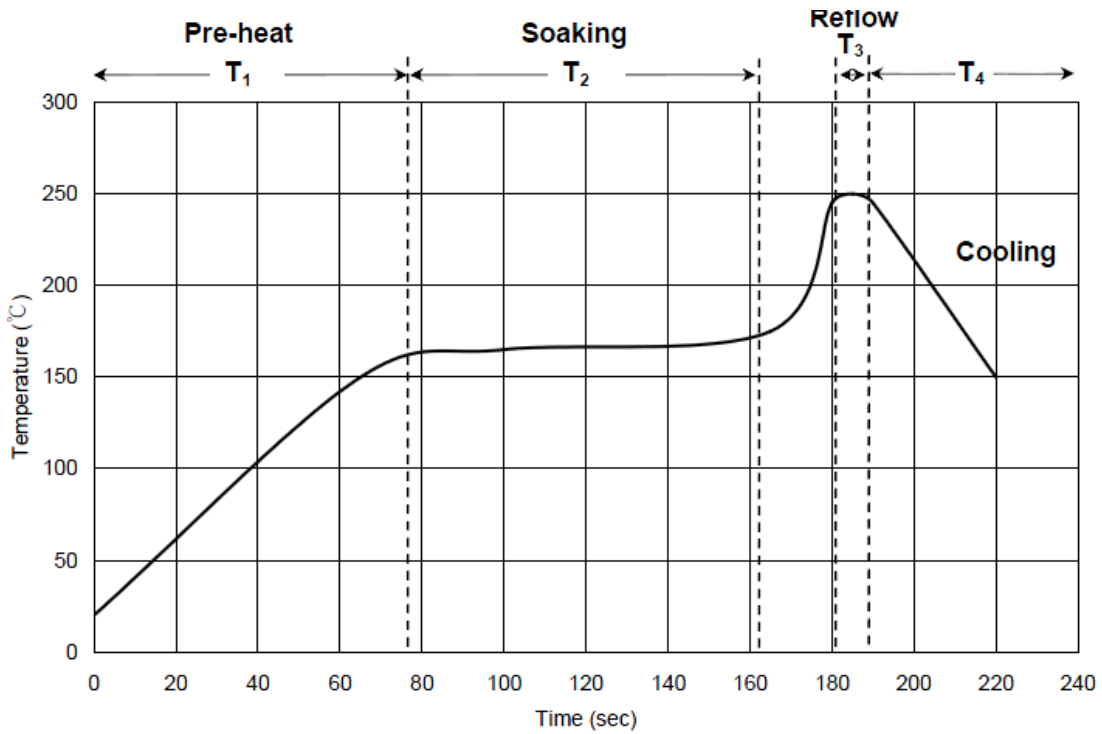
A	12±0.1mm
B	178±1mm
C	60±1mm
D	13.0±0.5mm



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SOLDERING CONDITIONS

- Recommended soldering profile



T1	Ramp up rate	1.0 ~ 3.0 °C/sec
	Pre-heat time	50~80 sec
T2	Soaking temperature	155~185°C
	Dwell time during soaking	60~120 sec
T3	Reflow temperature	240~250°C
	Reflow time	10 sec Max
	Ramp up rate during reflow	1.2~2.3 °C/sec
T4	Cooling	1.0~6.0 °C/sec

Notes:

1. Recommend using Sn96Ag3Cu0.5 lead free solder
2. Use alcohol-based cleaning solvents such as isopropyl alcohol to clean LED if necessary



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