SPECIFICATION

Product : 3535 Ceramic UV LED

Part No. : IWS-C352L-UV-395K1

Date : 2015. 05. 08 Ver. 0.1

Proposed By	Checked By	Checked By	Checked By	Approval
결 재 완 료				

Comment

ITSWELL

ITSWELL Co., Ltd
58B-4L, 626-3 Gojan-dong, Namdong-gu, Incheon 405-817 KOREA
TEL:+82-32-813-1910, FAX:+82+32-822-9009
URL: http://www.itswell.com

Table of Contents

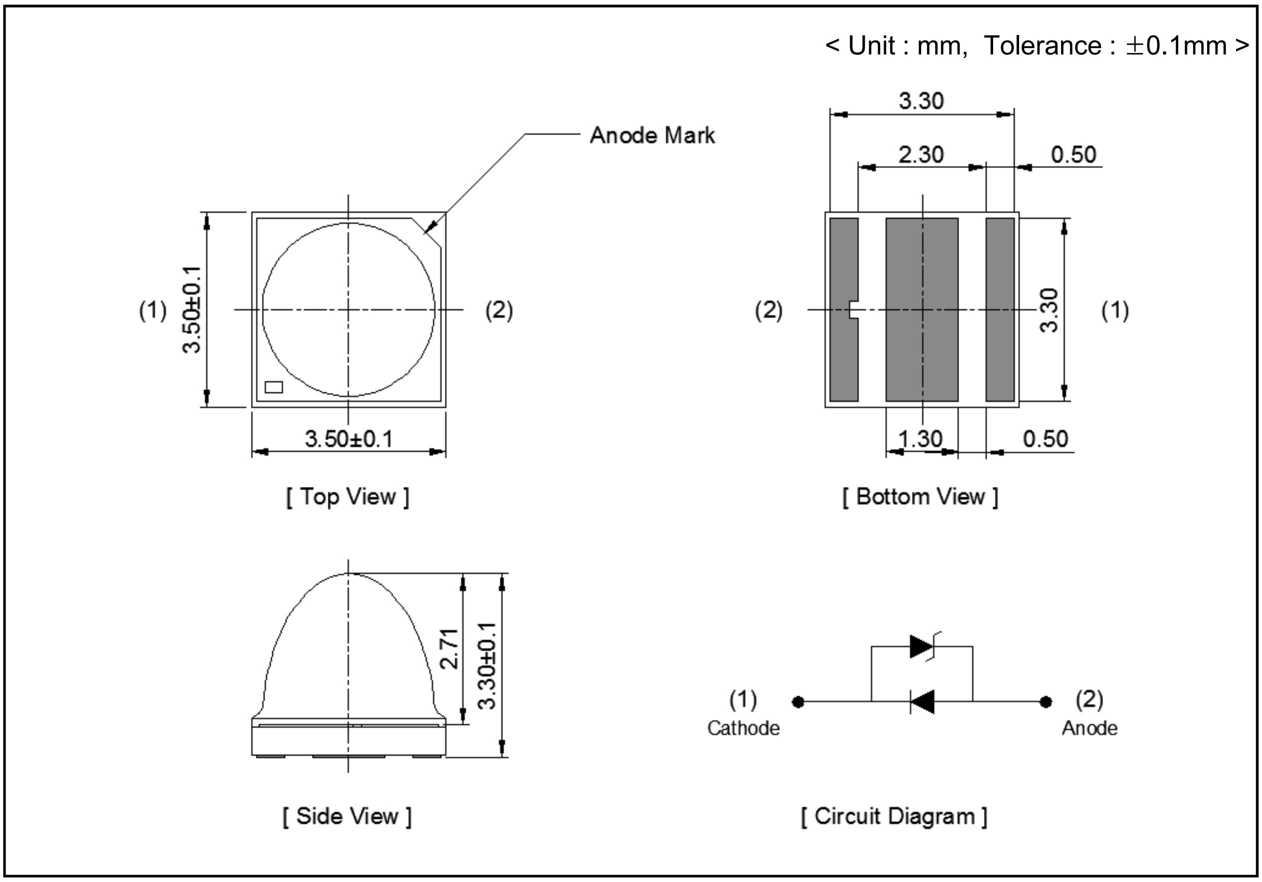
1. Features

- SMD Ceramic Package with Silicone Lens
- Small Size High-flux LED : 3.5 x 3.5 x 3.3 mm
- Wide Viewing Angle : 50˚

2. Applications

- UV Curing
- Phototherapy
- Air / Water Purification
- Counterfeit Detection
- Analytical Instruments
- Tanning

3. Outline Drawing and Dimension



Note

1. All dimensions are in millimeters
2. All dimensions without tolerances are for reference only

4. Absolute Maximum Ratings (Ta = 25 ℃)

Parameter	Symbol	Value	Unit
Power Dissipation	P_d	2.66	W
Continuous Forward Current	I_F	700	mA
Peak Forward Current ※1	I_{FP}	1000	mA
Operating Temperature	T_{opr}	-30 ~ +85	℃
Storage Temperature	T_{stg}	-40 ~ +100	℃
Soldering Temperature	T_{sol}	260 (5sec)	℃
Thermal Resistance	$R_{thj\text{-}a}$	6	℃/W

※1 Duty ratio = 1/10, Pulse width = 1ms

5. Electrical & Optical Characteristics (Ta : 25℃)

Parameter	**Symbol**	**Conditions**	**Min.**	**Typ.**	**Max.**	**Unit.**
Forward Voltage ※2	V_F	I_F = 500mA	3.2	-	3.8	V
Reverse Voltage	V_{RZ}	I_R = 5mA	0.7	0.8	1.5	V
Radiant Flux ※3	Φ_e	I_F = 500mA	800	-	1,200	㎽
Radiant Intensity ※4	I_e	I_F = 500mA	600	800	-	mW/sr
Peak Wavelength※5	W_p	I_F = 500mA	390	-	400	㎚
Viewing Angle ※6	$2\theta_{1/2}$	I_F = 500mA	-	50	-	deg.

※2 Forward Voltage has a tolerance of ±0.05 V.

※3 Radiant Flux is measured with an integrating sphere and has an accuracy of 10%.

※4 Radiant Intensity is measured at solid angle of Ω = 0.01sr and has an accuracy of 10%.

※5 Peak Wavelength has an accuracy of ±0.01 nm.

※6 Viewing Angle is the angle until 50% of brightness measured from the front part of LED.

5.1 Radiant Flux Rank

Rank	Radiant Flux (mW)
H	800 ~ 900
J	900 ~ 1,000
K	1,000 ~ 1,100
L	1,100 ~ 1,200

5.2 Forward Voltage Rank

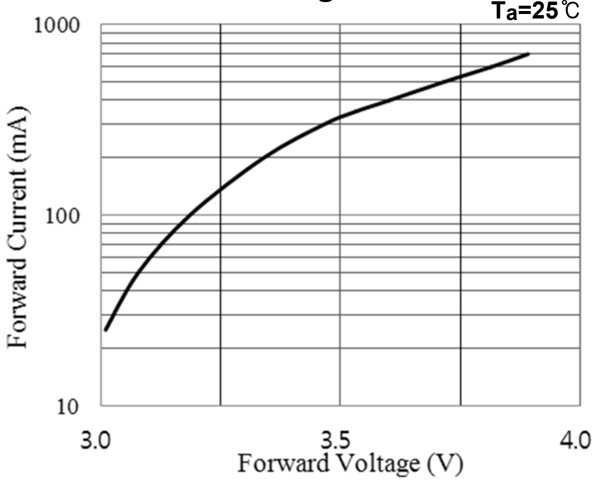
Rank	Forward Voltage (V)
4	3.2 ~ 3.4
6	3.4 ~ 3.6
8	3.6 ~ 3.8

5.3 Peak Wavelength Rank

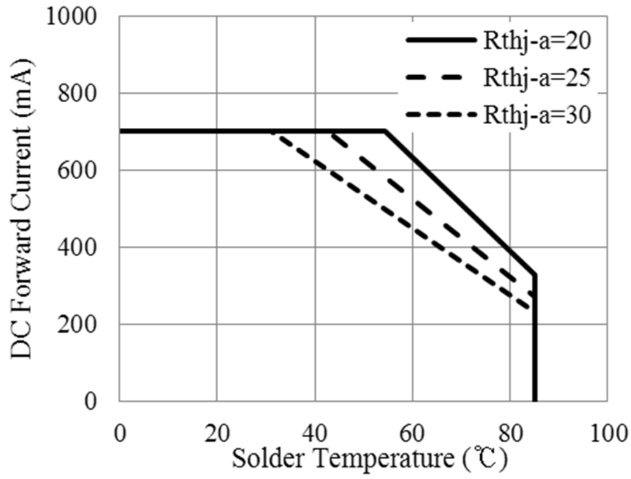
Rank	Peak Wavelength (nm)
Ue	390 ~ 400

6. Typical Characteristic Curve

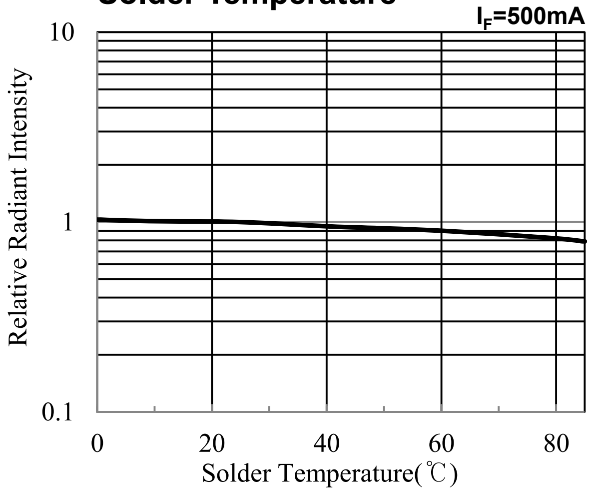
Forward Current vs. Forward Voltage



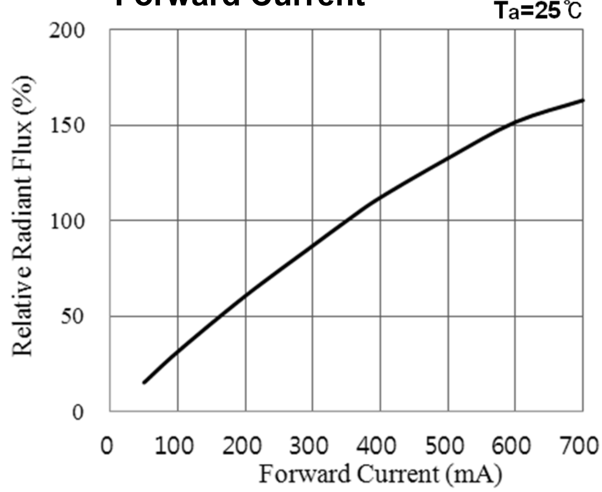
Forward Current vs. Solder Temperature



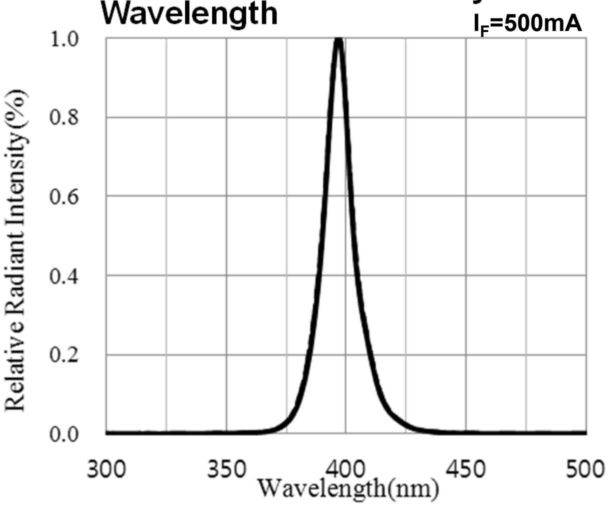
Relative Radiant Flux vs. Solder Temperature



Relative Radiant Flux vs. Forward Current



Relative Radiant Intensity vs. Wavelength



Radiant Diagram