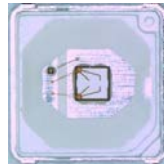


CUSTOMER : _____.

DATE : _____.

REV : _____.

SPECIFICATIONS FOR APPROVAL



5152 385nm 1in1 UV-A LED PKG

MODEL NAME : LEUVS51Q00TV00

RoHS
Compliant

APPROVAL	REMARK	APPENDIX

DESIGNED	CHECKED	APPROVED
Y.J.Lee	J.W.Cho	S.H.Lee

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TALBE OF CONTENTS

1. Features	-----	3
2. Outline Dimensions	-----	3
3. Applications	-----	4
4. Absolute Maximum Ratings	-----	4
5. Electro-Optical Characteristics	-----	4
6. Bin Structures	-----	5

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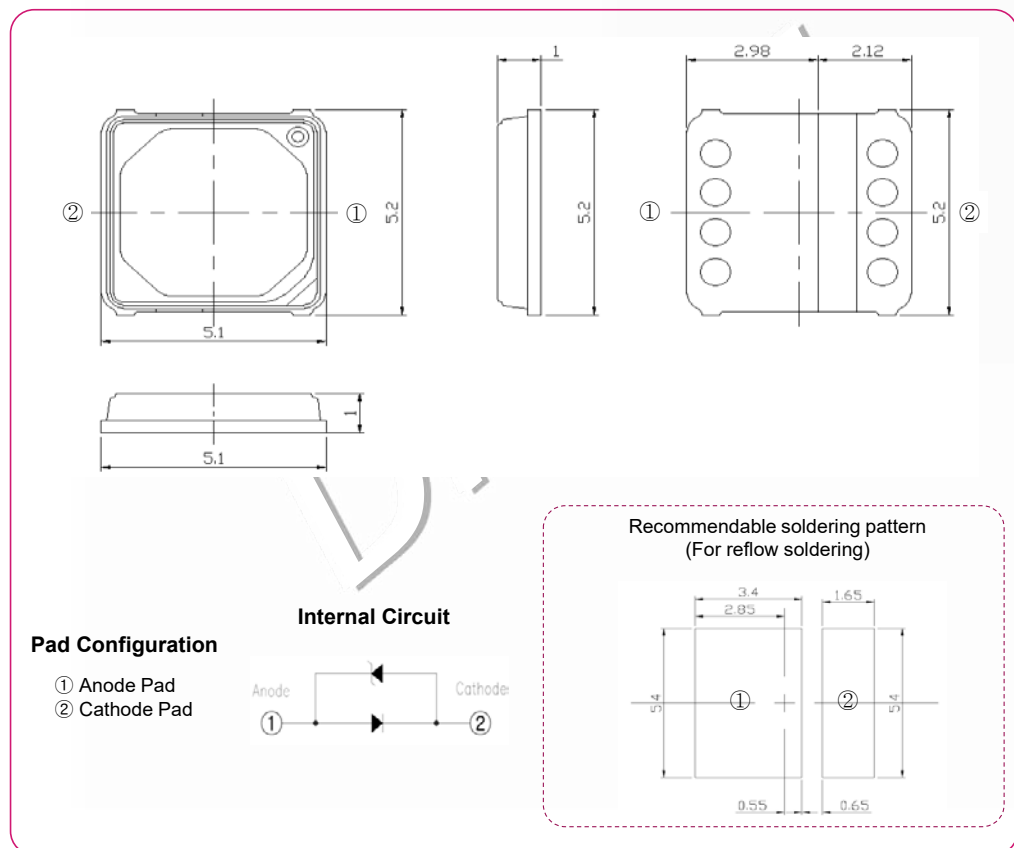
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1. Features

- Lighting Color(Peak Wavelength) : 385nm
- Surface Mount Type : 5.1×5.2×1.0 (L×W×H) [Unit : mm]
- Viewing Angle(Directivity) : Typical 120°
- Soldering Methods : Pb-Free IR-Reflow Soldering

2. Outline Dimensions

(Unit : mm)



▪ Tolerance unless otherwise mentioned are ± 0.20 mm

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3. Applications

- Nail-Cure

4. Absolute Maximum Ratings

(Ta= 25 °C)

Items	Symbols	Ratings	Unit
Forward Current	If	700	mA
Power Dissipation	Pd	2.6	W
Operating Temperature	Topr	-10 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Junction Temperature	Tj	<90	°C
Soldering Temperature	JEDEC-J-STD-020D		
ESD Classification	Class 2 (ANSI/ESDA/JEDEC JS-001)		

- ※ Operating the LED beyond the listed maximum ratings may affect device reliability and cause permanent damage.
These or any other conditions beyond those indicated under recommended operating conditions are not implied.
The exposure to the absolute maximum rated conditions may affect device reliability.
- ※ The LEDs are not designed to be driven in reverse bias

5. Electro-Optical Characteristics

(Ta= 25 °C)

Items	Symbol	Condition	Target Spec.			Unit	
			Min.	Typ.	Max.		
Forward Voltage	Vf	If = 350 mA	3.0	3.4	3.7	V	
Radiant Flux	Φ_e		300	450	-	mW	
Peak Wavelength	λ_p		380	385	390	nm	
Spectrum Half Width	$\Delta\lambda$			13		nm	
Viewing Anlge	2 θ 1/2			-	120	-	deg
Thermal Resistance *1)	Rth j-c				3.3		°C/W

*1) Rthj-c = Thermal Resistance (Junction – Case)

- ※ These values are measured by the LG Innotek optical spectrum analyzer within the following tolerances.
- Forward Voltage(Vf) : $\pm 0.1V$
- Peak Wavelength(λ_p) : $\pm 3.0nm$
- Radiant Flux(Φ_e) : $\pm 10\%$
- ※ Although all LEDs are tested by LG Innotek equipment, some values may vary slightly depending on the conditions of the test equipment.

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6. Bin Structures

Items	Rank	Min	Max	Unit
Peak Wavelength	T	380	390	nm
Radiant Flux		TBD		mW
Forward Voltage		TBD		v

※ Forward Current = 350mA

※ Rank name method : Please refer to the following example