



# Technical Data Sheet

## 5.0mm Round Type LED Lamps

### 333-2SUBW/C470/S400-A4

#### Features :

- Choice of various viewing angles
- Available on tape and reel.
- Reliable and robust



#### Descriptions :

- The series is specially designed for applications requiring higher brightness
- The led lamps are available with different colors, intensities,

#### Applications :

- TV set
- Monitor
- Telephone
- Computer

PART NO.	Material	Emitted Color	Lens Color
333-2SUBW/C470/S400-A4	InGaN	Super Blue	White Diffused

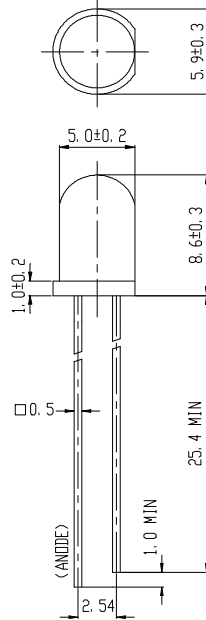


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#### Package Dimensions



**Notes:** 1. All dimensions are in millimetres

2. An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.

3. Tolerances unless Dimension  $\pm 0.25$ mm.

#### Absolute Maximum Ratings at $T_a = 25$

Parameter	Symbol	Rating	Unit
Forward Current	$I_F$	25	mA
Operating Temperature	$T_{opr}$	-40 to +85	
Storage Temperature	$T_{stg}$	-40 to +100	
Electrostatic Discharge	ESD	150	V
Soldering Temperature	$T_{sol}$	$260 \pm 5$	
Power Dissipation	$P_d$	120	mW
Peak Forward Current	$I_F(\text{Peak})$	100	mA
Reverse Voltage	$V_R$	5	V

Note: \*1:  $I_F$  Conditions --Pulse Width 1msec and Duty 1/10.

\*2: Soldering time 5 seconds.



Technical Data Sheet  
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**Electro-Optical Characteristics (Ta=25 )**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20 mA	/	3.4	4.0	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 5 V	/	/	50	μ A
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> = 20 mA	100.0	200.0	/	mcd
Viewing Angle	2 1/2	I <sub>F</sub> = 20 mA	/	40	/	deg
Peak Wavelength	p	I <sub>F</sub> = 20 mA	/	468	/	nm
Dominant Wavelength	d	I <sub>F</sub> = 20 mA	/	470	/	nm
Spectrum Radiation Bandwidth		I <sub>F</sub> = 20 mA	/	35	/	nm



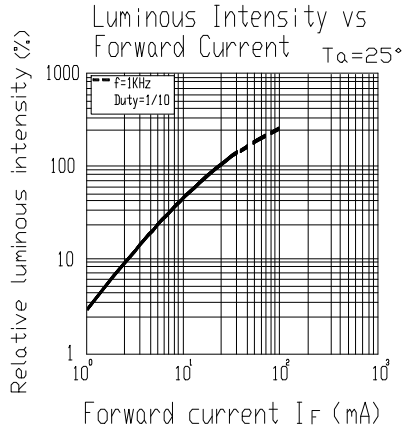
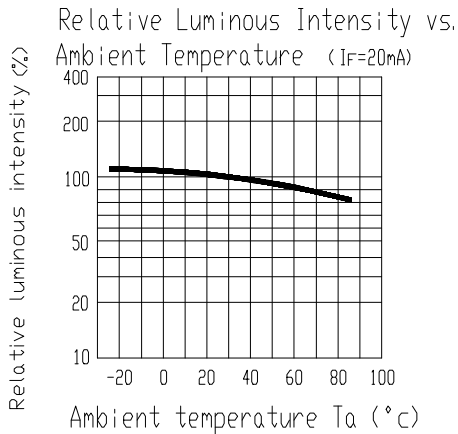
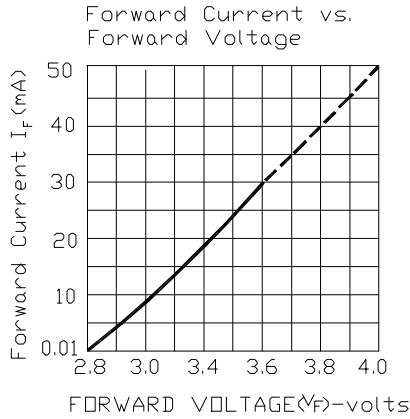
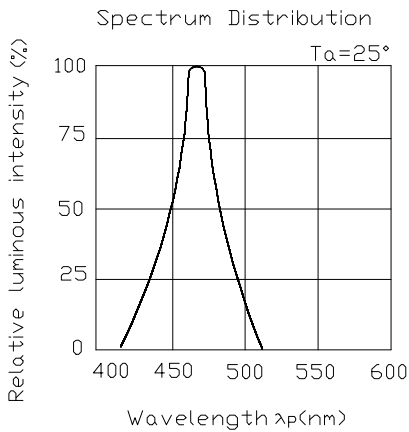
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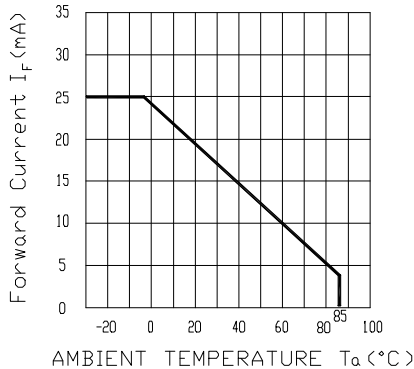
### 333-2SUBW/C470/S400-A4

#### Typical Electro-Optical Characteristic Curves:

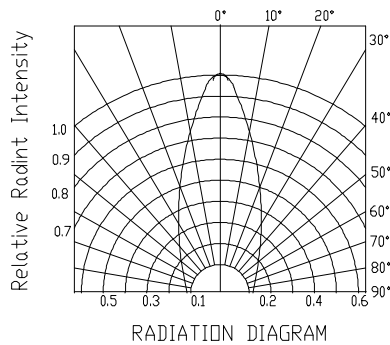
( SUB )



Forward Current Derating Curve  $T_a=25^\circ$



Radiation Diagram  $T_a=25^\circ$





Technical Data Sheet  
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Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	Sample size	Ac/Re
1	Solder Heat	TEMP : 260 ± 5	10 SEC	76 PCS	0/1
2	Temperature Cycle	H : +100 15min 5 min L : -40 15min	300 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100 5min 10 sec L : -10 5min	300 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : 100	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -40	1000 HRS	76 PCS	0/1
6	DC Operating Life	TEMP : 25 If = 20mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85 / 85% RH	1000 HRS	76 PCS	0/1



# Technical Data Sheet

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### 333-2SUBW/C470/S400-A4

#### Packing Quantity Specification

1.500PCS/1Bag , 5Bags/1Box

2.10Boxes/1Carton

#### Label Form Specification



CPN:

P/N:



333-2SUBW/C470/S400-A4

QTY:

CAT:



HUE:

REF:

LOT NO: EL



CPN: Customer's Production Number

P/N : Production Number

QTY: Packing Quantity

CAT: Ranks

HUE: Peak Wavelength

REF: Reference

LOT No: Lot Number

MADE IN TAIWAN: Production Place

MADE IN TAIWAN

#### Notes

1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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