



Technical Data Sheet

5.0mm Cylindrical Type LED Lamps

423-2ASUBC/S400-A6

■ Features :

- Popular T-1 diameter package.
- Reliable and robust.
- Pb free .
- The product itself will remain within RoHS compliant version
- ESD-withstand voltage: up to 5KV



■ Descriptions :

- The series is specially designed for Applications requiring higher Brightness
- The LED lamps are available with Different colors,intensities,epoxy colors,etc.

■ Applications :

- TV set
- Monitor
- Telephone
- Computer

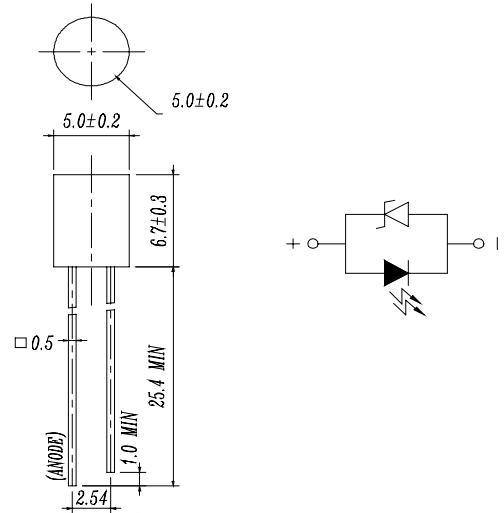
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PART NO.	Material	Emitted Color	Lens Color
423-2ASUBC/S400-A6	GaN	Super Blue	Water Clear

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Package Dimensions



- Notes:
1. All dimensions are in millimetres
 2. The height of flange must be less than 1.5mm(0.059").
 3. Without special declared, the tolerance is ± 0.25 mm.

Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Forward Current	I_F	25	mA
Operating Temperature	T_{opr}	-40 to +85	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to +100	$^\circ\text{C}$
Electrostatic Discharge	ESD	5000	V
Soldering Temperature	T_{sol}	260 ± 5	$^\circ\text{C}$
Power Dissipation	P_d	120	mW
Reverse Voltage	V_R	5	V

Note: *1: Soldering time ≤ 5 seconds.



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Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	I _F = 20 mA	/	3.0	4.0	V
Reverse Current	IR	V _R = 5 V	/	/	50	μA
Luminous Intensity	I _v	I _F = 20 mA	85	120	/	mcd
Viewing Angle	2θ 1/2	I _F = 20 mA	/	85	/	deg
Peak Wavelength	λ _p	I _F = 20 mA	/	468	/	nm
Dominant Wavelength	λ _d	I _F = 20 mA	/	470	/	nm
Spectrum Radiation Bandwidth	Δλ	I _F = 20 mA	/	35	/	nm

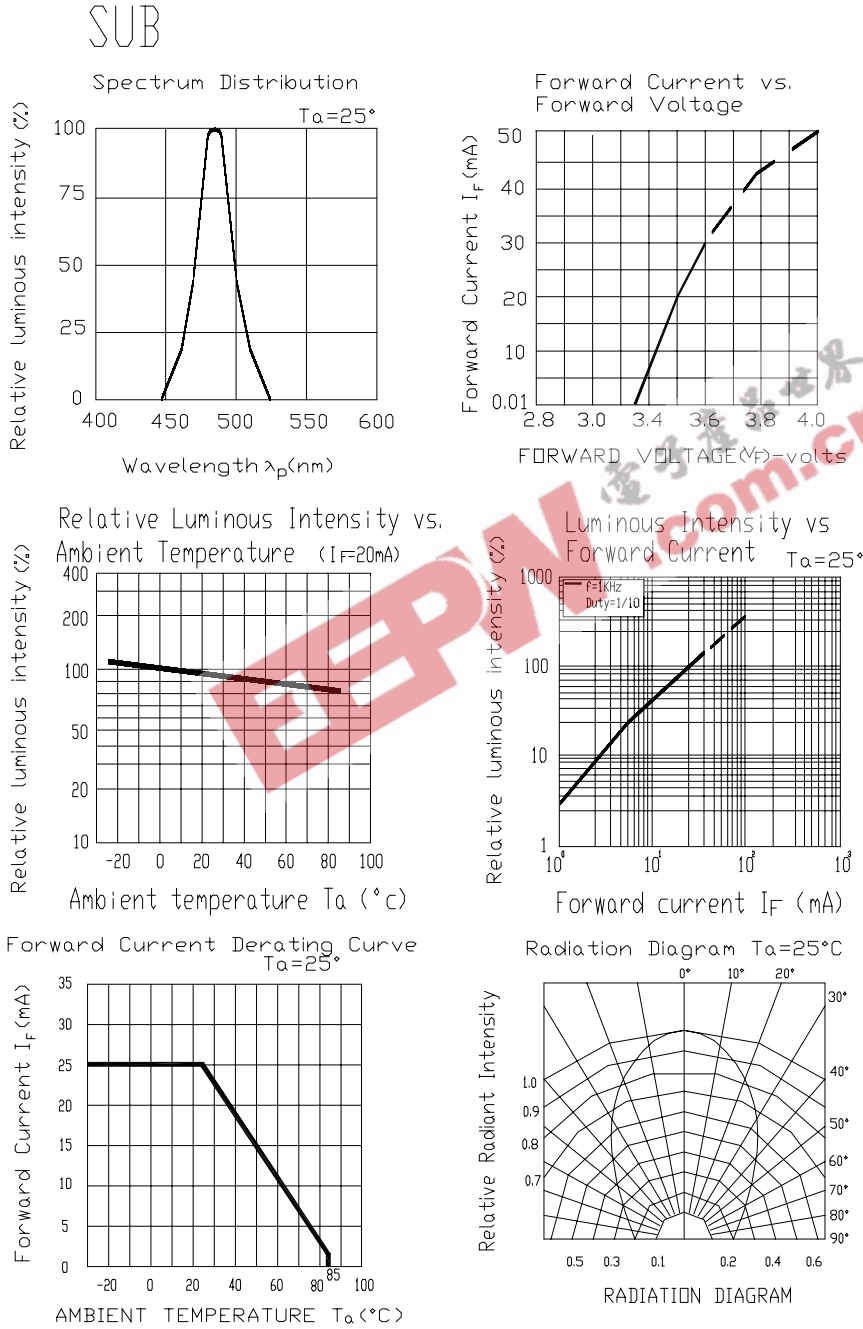


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Typical Electro-Optical Characteristic Curves:





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Reliability test items and conditions:

The reliability of products shall be satisfied with items listed below.

Confidence level : 97%

LTPD : 3%

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Failure Judgment Criteria	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	10 SEC	76 PCS	$I_v \leq I_{vt} * 0.5$ or $V_f \geq U$ or $V_f \leq L$	0/1
2	Temperature Cycle	H : +100°C 15min \int 5 min L : -40°C 15min	300 CYCLES	76 PCS		0/1
3	Thermal Shock	H : +100°C 5min \int 10 sec L : -10°C 5min	300 CYCLES	76 PCS		0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 PCS		0/1
5	Low Temperature Storage	TEMP : -40°C	1000 HRS	76 PCS		0/1
6	DC Operating Life	TEMP : 25°C $I_F = 20\text{mA}$	1000 HRS	76 PCS		0/1
7	High Temperature / High Humidity	85°C / 85% RH	1000 HRS	76 PCS		0/1

Note : I_{vt} : To test I_v value of the chip before the reliability test
 I_v : The test value of the chip that has completed the reliability test
U : Upper Specification Limit
L : Lower Specification Limit



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Packing Quantity Specification

1. 500PCS/1Bag · 5Bags/1Box
2. 10Boxes/1Carton

Label Form Specification



CPN:
P/N:



423-2ASUBC/S400-A6

QTY: CAT:
HUE: HUE:
REF: REF:



LOT NO:EL



MADE IN TAIWAN

CPN: Customer's Production Number

P/N : Production Number

QTY: Packing Quantity

CAT: Ranks

HUE: Dominant Wavelength

REF: Reference

LOT No: Lot Number

MADE IN TAIWAN: Production Place

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.
3. These specification sheets include materials protected under copyright of EVERLIGHT corporation. Please don't reproduce or cause anyone to reproduce them without EVERLIGHT's consent.
4. When the LED is connected using serial circuit, if either piece of LED is no light up but current can't flow through causing others to light down. In new design, the LED is parallel with zener diode. if either piece of LED is no light up but current ca

