Technical Data Sheet 5 mm Cylindriccal Shape

423-2ASUGC /S400-A6

Features

- High ligh output.
- I.C compatible.
- Available on tape and reel.
- Reliable and robust.
- Most radial lead plastic LED lamp available

Packed in tape and reel

- Reel package simplifies handling and treating
- ESD-withstand voltage: up to 4KV
- The product itself will remain within RoHS compliant version.

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

Device Selection Guide

	Lens Color	
Material		
InGaN	Super Green	Water Clear

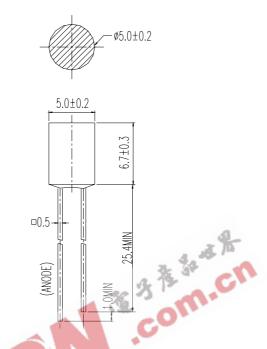
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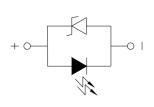


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Package Dimensions





Notes:

- All dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Lead spacing is measured where the lead emerges from the package.
- Protruded resin under flange is 1.5mm Max LED.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Units
Forward Current	$I_{\rm F}$	30	mA
Pulse Forward Current(Duty1/10@ 1KHz)	$I_{\rm FP}$	100	mA
Operating Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Electrostatic Discharge	ESD	4K	V
Soldering Temperature ^{*2}	T _{sol}	260 ±5	°C
Power Dissipation	P _d	110	mW
Zener Reverse Current	Iz	100	mA

Notes: Soldering time \leq 5 seconds.

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Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Тур.	Max.	Units
Forward Voltage	V_{F}	I _F =20mA		3.4	4.1	V
Reverse Current	I _R	V _R =5V		50	uA	μ A
Zener Reverse Voltage	Vz	Iz=5mA	5.2			V
Luminous Intensity	I_V	I _F =20mA	360	565		mcd
Viewing Angle	2 0 1/2	I _F =20mA		85		deg
Peak Wavelength	λp	I _F =20mA	0	525	ра 	nm
Dominant Wavelength	λd	I _F =20mA	12 B	530		nm
Spectrum Radiation Bandwidth	Δλ	I _F =20mA		35		nm

Rank Combination (I_F=20mA)

Rank	F	G	Н	J
Luminous Intensity	450~565	565~715	715~900	900~1125

*Measurement Uncertainty of Luminous Intensity: ±15%

Ranks	S	Т	U	V	W
Forward Voltage	3.1~3.3	3.3~3.5	3.5~3.7	3.7~3.9	3.9~4.1

*Measurement Uncertainty of Forward Voltage: ±0.1V

Rank	3	4	5
Dominant Wavelength	520~524	524~528	528~532

*Measurement Uncertainty of Dominant Wavelength ±1.0nm

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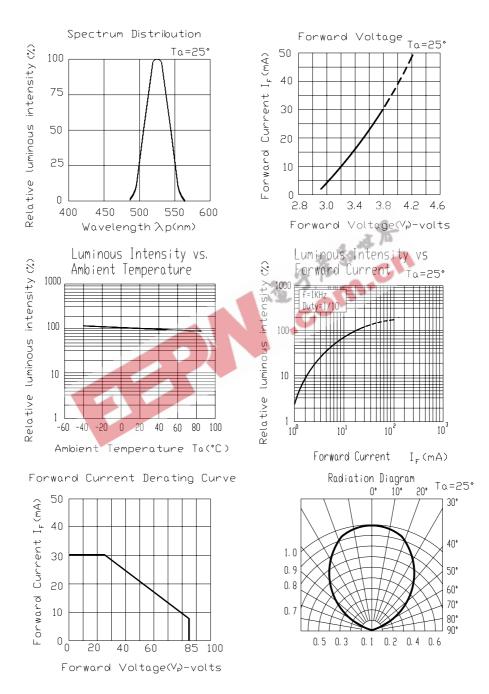
Unit:V

Unit:nm

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Typical Electro-Optical Characteristics Curves



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Packing Quantity Specification

1.500 PCS/1Bag , 5Bags/1Box

2.10 Boxes/1 Carton

Label Form Specification

CPN: Customer's Production Number **EVERLIGHT** P/N : Production Number QTY: Packing Quantity CPN P/N: CAT: Ranks of Luminous Intensity and Forward RoHS Voltage 423-2ASUGC/S400-A6 HUE: Ranks of Dominant Wavelength QTY CAT: REF: Reference 🐁 HUE: REF: LOT No: Lot Number LOT NO: MADE IN TAIWAN: Production Place MADE IN TAIWAN

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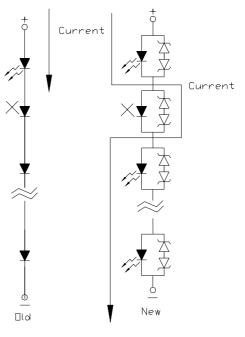
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Notes

- 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. Below the zener reference voltage Vz, all the current flows through LED and as the voltage rises to Vz, the zener diode "breakdown." If the voltage tries to rise above Vz current flows through the zener branch to keep the voltage at exactly Vz.
- 5. 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 can flow through causing others to light up



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6. Soldering Condition

Careful attention should be paid during soldering. When soldering, leave more then 3mm from solder joint to case, and soldering beyond the base of the tie bar is recommended.

Avoiding applying any stress to the lead frame while the LEDs are at high temperature particularly when soldering.

Recommended soldering conditions:

Hand Soldering		DIP Soldering				
Temp. at tip of iron	400°C Max. (30W Max.)	Preheat temp.	100°C Max. (60 sec Max.)			
Soldering time	3 sec Max.	Bath temp.	265 Max.			
Distance	3mm Min.(From solder	Bath time.	5 sec Max.			
	joint to case)	7. 34	-0			
		Distance	3mm Min.			
Distance 3mm Min.						



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