

Technical Data Sheet

Features

- High luminous intensity output
- Oval Shape
- Well defined spatial radiation
- Wide viewing angle $(2 \theta_{1/2})$: $110^{\circ} / 40^{\circ}$
- UV resistant epoxy
- 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.
- Superior performance in outdoor environment

5464SUBD/MS



Applications

- Color Graphic Signs
- Message boards.
- Variable message signs (VMS)
- Commercial outdoor advertising.

Device Selection Guide

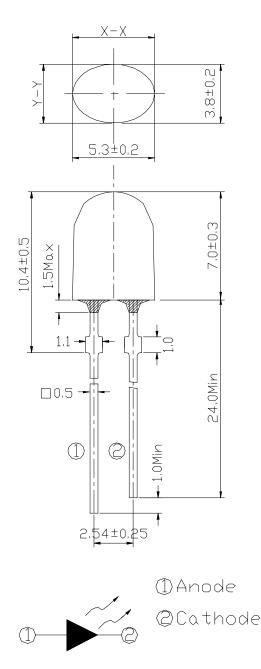
LED Part No.	С	Lang Calan		
	Material	Emitted Color	Lens Color	
5464SUBD/MS	InGaN/SiC	Blue	Blue Diffused	

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Package Dimension



Notes:

- Stopper tolerance is +0.2/-0.1mm .
- Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Protruded resin under flange is 1.5mm Max LED.
- Bare copper alloy is exposed at tie-bar portion after cutting.

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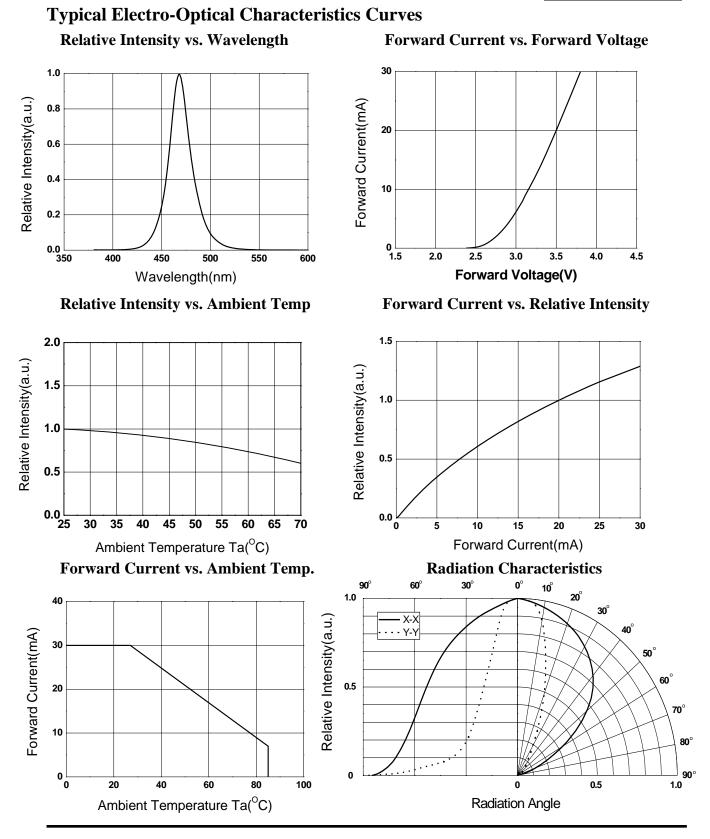
Parameter	Symbol	Absolute Maximum Rating						Unit			
Forward Current	I _F	30						mA			
Pulse Forward Current (Duty1/10@ 1KHz)	I _{FP}	100						mA			
Operating Temperature	T _{opr}				-40 ~ +	-85				°C	
Storage Temperature	T _{stg}	-40 ~ +100							°C		
Electrostatic Discharge	ESD	1000							V		
Soldering Temperature	T _{sol}	260 ±5							°C		
Power Dissipation	P _d	130						mW			
Reverse Voltage	VR				5					V	
Notes: Soldering time ≤ 5 seconds. Electro-Optical Characteristics (T _a =25°C)											
Parameter	Symbol	М	Min.		Гур.	Max	κ.	U	nit	Condition	
Luminous Intensity	Iv	28	85	4	450	715	5	m	cd		
Viewing Angle	2 heta 1/2	-	-	X:1	10Y:40			de	eg	1	
Peak Wavelength	λp	-	-	4	468						
Dominant Wavelength	λ_d	460		4	470	480)	nm		I _F =20mA	
Spectrum Half width	Δλ				26						
Forward Voltage	V _F	2.8			3.5	3.8	3.8 V		V		
Reverse Current	I _R					50	50 μ A		А	V _R =5V	
Rank Combination (I _F =20mA)											
Rank	D	E		E			F			G	
Luminous Intensity	285~36	0 360		860~4	450 450		0~565			565~715	
*Measurement Uncertainty of Luminous Intensity: ±15% Unit:mcd											
Rank	0	1			2		3			4	
Forward Voltage	2.8~3.0	3.0~3		.2	3.2~3.4		3.4~3.6			3.6~3.8	
*Measurement Uncertainty of Forward Voltage: ±0.1V Unit:V											
Rank	2	3			4		5			6	
Dominant Wavelength	460~464	464 464~4			468~472		472~476		5	476~480	
						Unit:nm					
*The quantity ratio of the ranks is decided by EVERLIGHT.											

Absolute Maximum Rating (T_a=25 $^\circ\!\!\!\mathrm{C}$)

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Packing Quantity Specification

1.500PCS/1Bag , 5Bags/1Box

2.10 Boxes/1 Carton

Label Form Specification

CPN: Customer's Production Number P/N : Production Number QTY: Packing Quantity CAT: Ranks of Luminous Intensity and Forward Voltage HUE: Ranks of Dominant Wavelength REF: Reference LOT No: Lot Number MADE IN TAIWAN: Production Place

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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.
- 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. 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.

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 joint to case)	Bath time.	5 sec Max.		
		Distance	3mm Min.		

Recommended soldering conditions:

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