



Technical Data Sheet

5.0mm Multi-Color Round Type LED Lamps

339-1UBUYW/S530-A4

Features :

- Two chips are matched for uniform light output, wide viewing angle
- Long life-solid state reliability
- I.C. compatible/Low power consumption

Descriptions :

- The 339-1 LED lamp contain two integral chips and is available as both bicolor and bipolar types.
- The Blue and Super Yellow light is emitted by diodes of InGaN/SiC and AlGaInP respectively.
- Type of bipolar lamps are both White Diffused and Color Diffused while the bicolor are White Diffused

Applications :

- TV set
- Monitor
- Telephone
- Computer



PART NO.	Chip		Lens Color
	Material	Emitted Color	
339-1UBUYW/S530-A4	InGaN/SiC	Blue	White Diffused
	AlGaInP	Super Yellow	

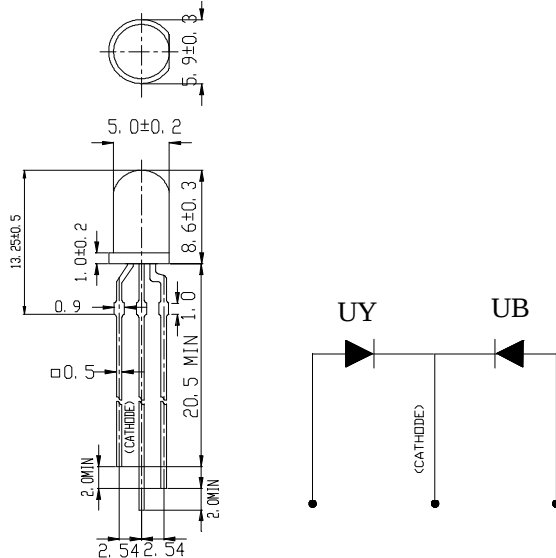


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Package Dimensions



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 $\pm 0.25\text{mm}$.

Absolute Maximum Ratings at $T_a = 25$

Parameter	Symbol	Rating		Unit
Forward Current	I _F	UB/C470	30	mA
		UY/S530	25	
Operating Temperature	T _{opr}	-40 to +85		
Storage Temperature	T _{stg}	-40 to +100		
Soldering Temperature	T _{sol}	260 ± 5		
Electrostatic Discharge	ESD UB/C470 UY/S530	1000		V
		2000		
Power Dissipation	P _d	UB/C470	130	mW
		UY/S530	60	
Peak Forward Current	I _F (Peak)	UB/C470	100	mA
		UY/S530	160	
Reverse Voltage	V _R	5		V

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

*2:Soldering time 5 seconds.



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Electro-Optical Characteristics (Ta=25 °C)

Parameter	Symbol		Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	UB/C470	16.0	32.0	/	mcd	If= 20 mA
		UY/S530	25.0	50.0	/		
Viewing Angle	2 θ 1/2		/	100	/	deg	If= 20 mA
Peak Wavelength	λ p	UB/C470	/	468	/	nm	If= 20 mA
		UY/S530	/	591	/		
Dominant Wavelength	λ d	UB/C470	/	470	/	nm	If= 20 mA
		UY/S530	/	589	/		
Spectrum Radiation Bandwidth	λ	UB/C470	/	26	/	nm	If= 20 mA
		UY/S530	/	15	/		
Forward Voltage	VF	UB/C470	/	3.5	4.3	V	If= 20 mA
		UY/S530	/	2.0	2.4		
Reverse Current	IR	UB/C470	/	/	50	μ A	VR= 5 V
		UY/S530	/	/	10		



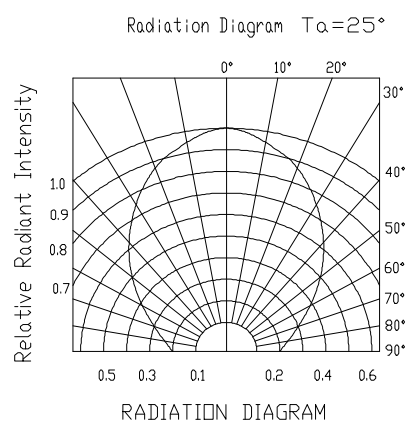
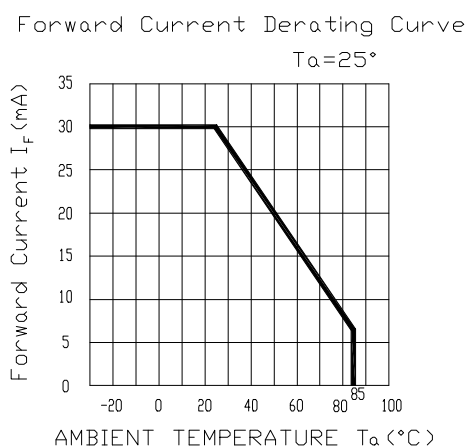
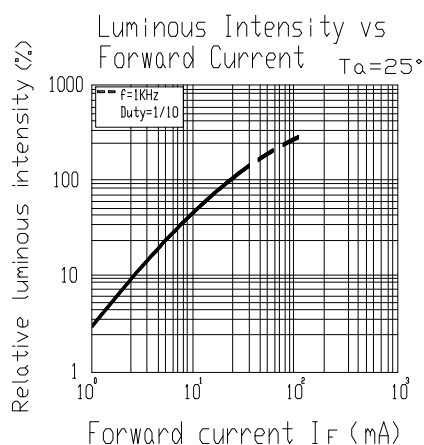
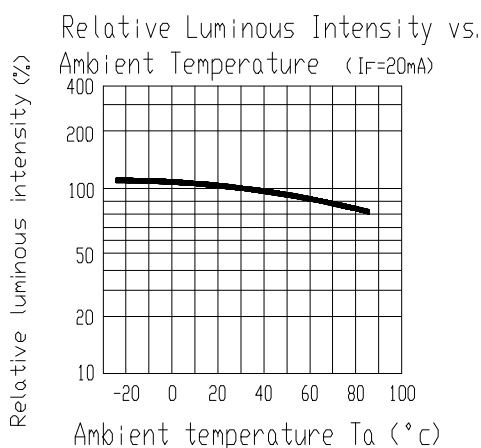
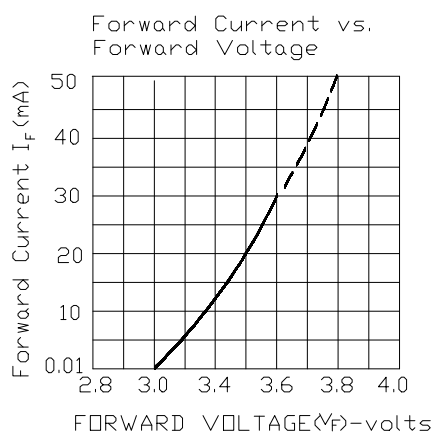
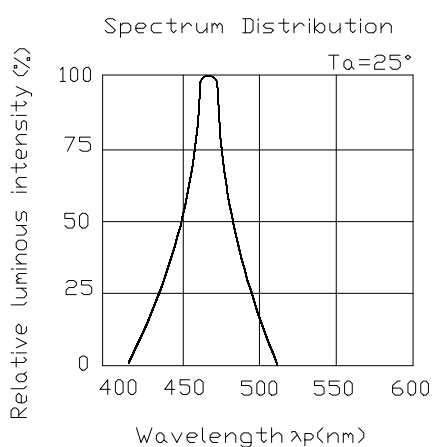
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Typical Electro-Optical Characteristic Curves:

(UB)



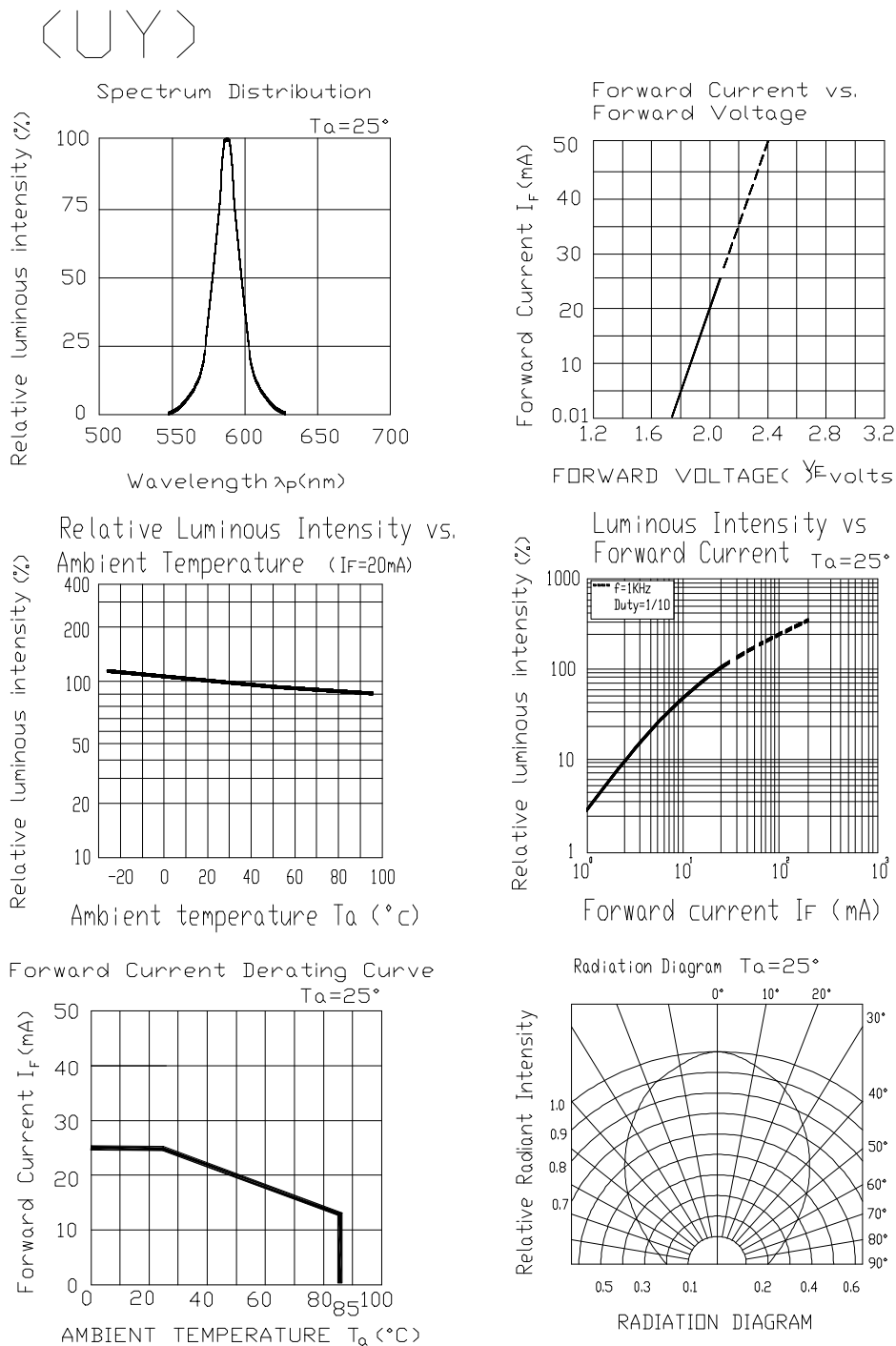


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Typical Electro-Optical Characteristic Curves:





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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 I _F = 20mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85 / 85% RH	1000 HRS	76 PCS	0/1



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Packing Quantity Specification

1.500PCS/1Bag , 4Bags/1Box

2.10Boxes/1Carton

Label Form Specification



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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