



# Technical Data Sheet

## 3.0mm Multi-Color Round Type LED Lamps

209SURSYGW/S530-A3

### ■ Features :

- Two chips are matched for uniform light output, wide viewing angle
- Long life-solid state reliability
- I.C. compatible/Low power consumption
- Pb free
- The product itself will remain within RoHS compliant version



### ■ Descriptions :

- The 269-7 LED lamps contain two integral chips and is available as both bicolor and bipolar types.
- Hyper Red and Super Yellow Green light is emitted by diodes of AlGaInP and AlGaInP
- Type of bicolor lamps are both white diffused and color diffused while the bicolor are water clear.

### ■ Applications :

- TV set
- Monitor
- Telephone
- Computer

PART NO.	Chip		Lens Color
	Material	Emitted Color	
209SURSYGW/S530-A3	AlGaInP	Hyper Red	White Diffused
	AlGaInP	Super Yellow Green	





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209SURS YGW/S530-A3

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol		Condition	Min.	Typ.	Max.	Unit
Forward Voltage	SUR/S530	V <sub>F</sub>	I <sub>F</sub> = 20 mA	/	2.0	2.4	V
	SYG/S530			/	2.0	2.4	
Reverse Current	SUR/S530	I <sub>R</sub>	V <sub>R</sub> = 5 V	/	/	10	μ A
	SYG/S530			/	/	10	
Luminous Intensity	SUR/S530	I <sub>v</sub>	I <sub>F</sub> = 20 mA	40	80	/	mcd
	SYG/S530			20	40	/	
Viewing Angle		2θ 1/2	I <sub>F</sub> = 20 mA	/	80	/	deg
Peak Wavelength	SUR/S530	λ <sub>p</sub>	I <sub>F</sub> = 20 mA	/	632	/	nm
	SYG/S530			/	575	/	
Dominant Wavelength	SUR/S530	λ <sub>d</sub>	I <sub>F</sub> = 20 mA	/	624	/	nm
	SYG/S530			/	573	/	
Spectrum Radiation Bandwidth	SUR/S530	Δλ	I <sub>F</sub> = 20 mA	/	20	/	nm
	SYG/S530			/	20	/	



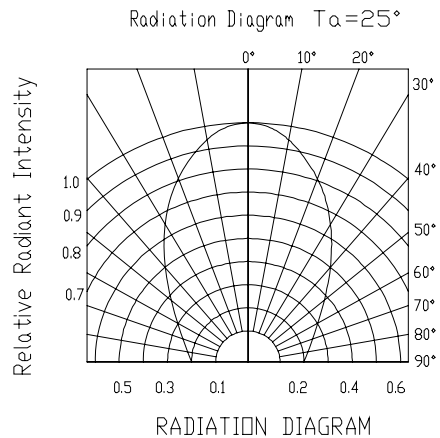
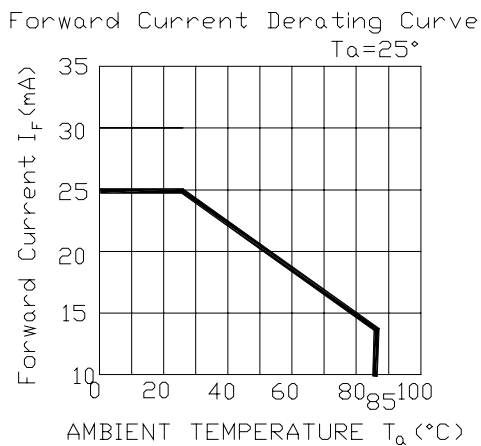
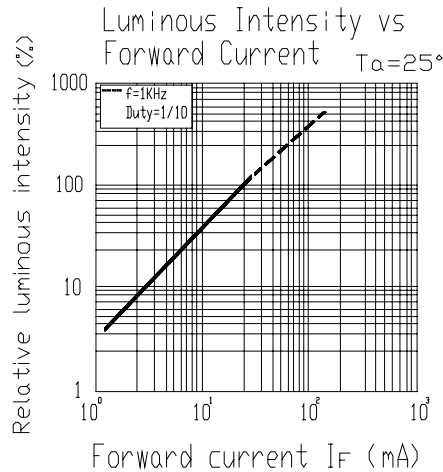
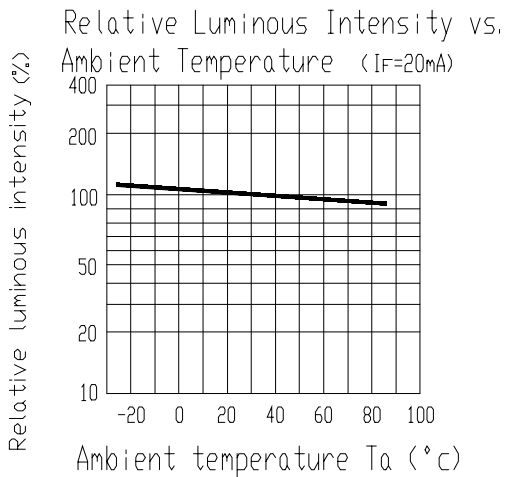
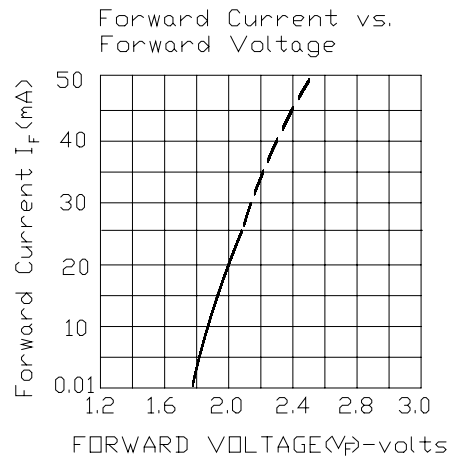
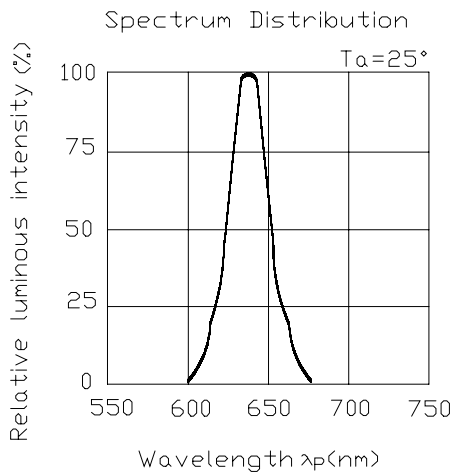
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### Typical Electro-Optical Characteristic Curves:

(SUR)





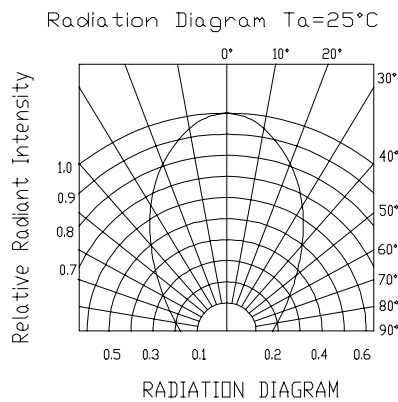
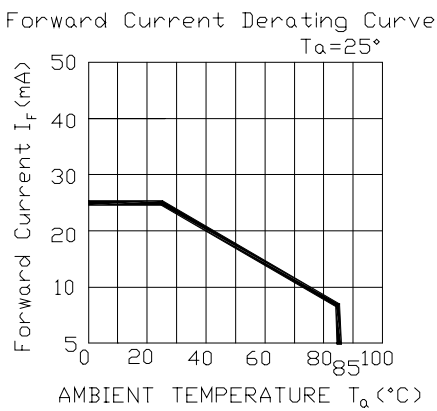
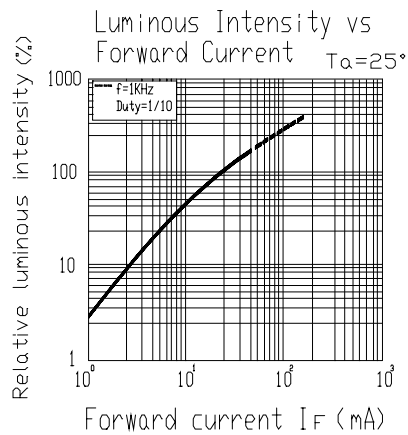
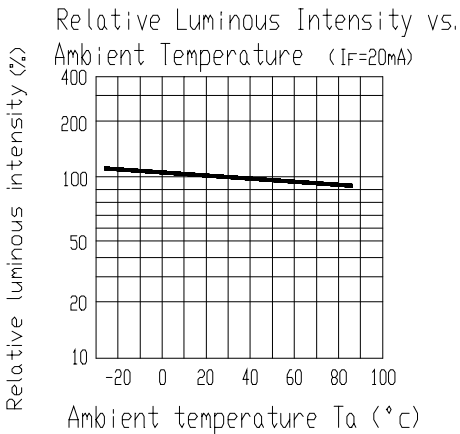
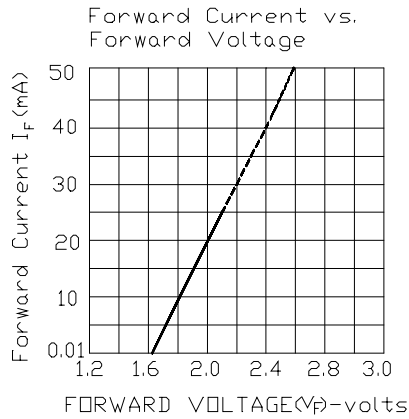
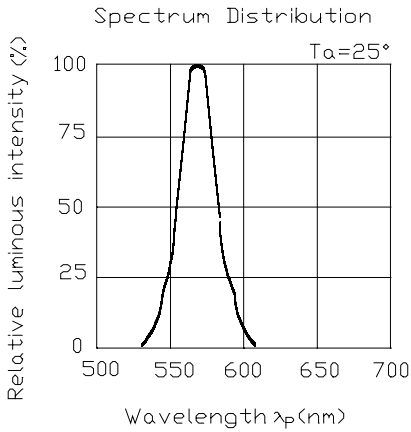
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### Typical Electro-Optical Characteristic Curves:

(SYG)





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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	Iv ≤ Ivt*0.5 or Vf ≥ U or Vf ≤ L	0/1
2	Temperature Cycle	H : +100°C 15min ∫ 5 min L : -40°C 15min	300 CYCLES	76 PCS		0/1
3	Thermal Shock	H : +100°C 5min ∫ 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 IF = 20mA	1000 HRS	76 PCS		0/1
7	High Temperature / High Humidity	85°C / 85% RH	1000 HRS	76 PCS		0/1

Note : Ivt : To test Iv value of the chip before the reliability test  
Iv : The test value of the chip that has completed the reliability test  
U : Upper Specification Limit  
L : Lower Specification Limit



# Technical Data Sheet

## 3.0mm Multi-Color Round Type LED Lamps

209SURSYGW/S530-A3

### Packing Quantity Specification

1.500PCS/1Bag , 4Bags/1Box

2.10Boxes/1Carton

### Label Form Specification

EVERLIGHT

CPN:

P/N:



209SURSYGW/S530-A3

QTY:



CAT:

HUE:

REF:

LOT NO: EL



CPN: Customer's Production Number

P/N : Production Number

QTY: Packing Quantity

CAT: Ranks

HUE: Dominant Wavelength

REF: Reference

LOT No: Lot Number

### 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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