



Technical Data Sheet

3.0mm Multi-Color Round Type LED Lamps

209SURSYGW/S530-A3/R2(第二版)

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 209LED 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/R2(第二版)	AlGaInP	Hyper Red	White Diffused
	AlGaInP	Super Yellow Green	



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Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol		Condition	Min.	Typ.	Max.	Unit
Forward Voltage	SUR/S530	V _F	I _F = 20 mA	/	2.0	2.4	V
	SYG/S530			/	2.0	2.4	
Reverse Current	SUR/S530	I _R	V _R = 5 V	/	/	10	μ A
	SYG/S530			/	/	10	
Luminous Intensity	SUR/S530	I _v	I _F = 20 mA	4	8	/	mcd
	SYG/S530			2	3	/	
Viewing Angle		2θ 1/2	I _F = 20 mA	/	80	/	deg
Peak Wavelength	SUR/S530	λ _p	I _F = 20 mA	/	632	/	nm
	SYG/S530			/	575	/	
Dominant Wavelength	SUR/S530	λ _d	I _F = 20 mA	/	624	/	nm
	SYG/S530			/	573	/	
Spectrum Radiation Bandwidth	SUR/S530	Δλ	I _F = 20 mA	/	20	/	nm
	SYG/S530			/	20	/	



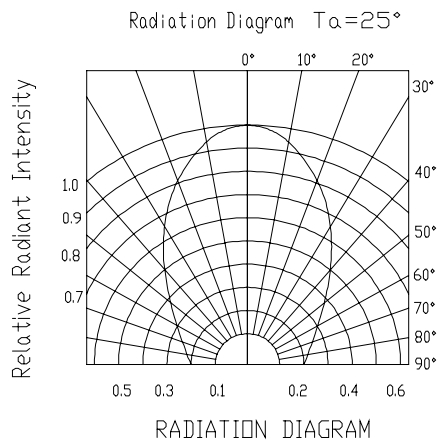
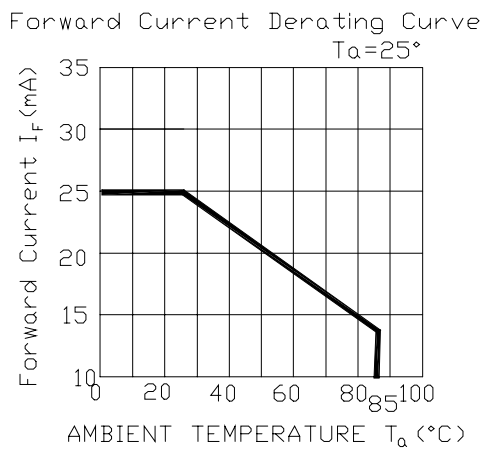
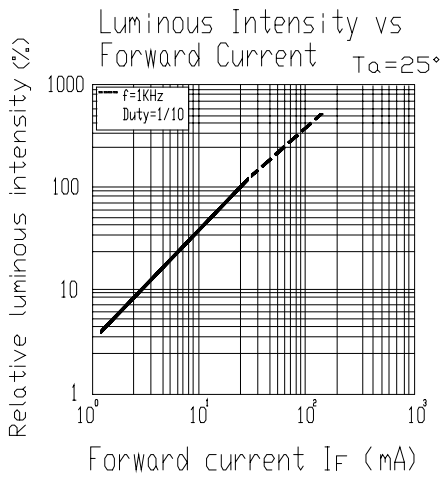
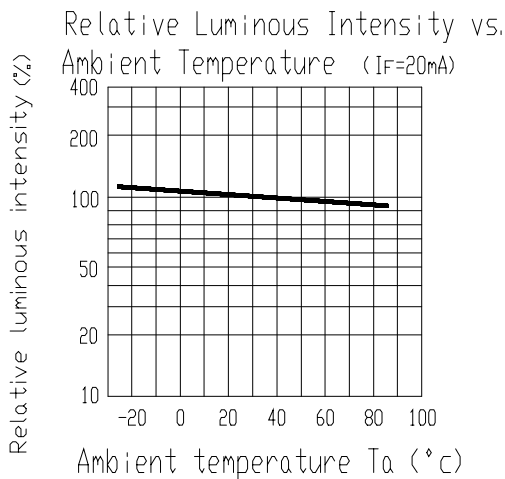
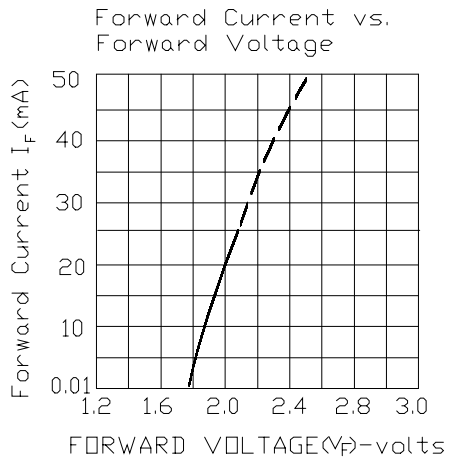
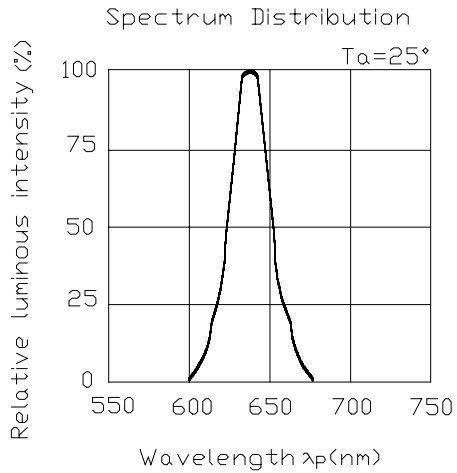
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Typical Electro-Optical Characteristic Curves:

(SUR)





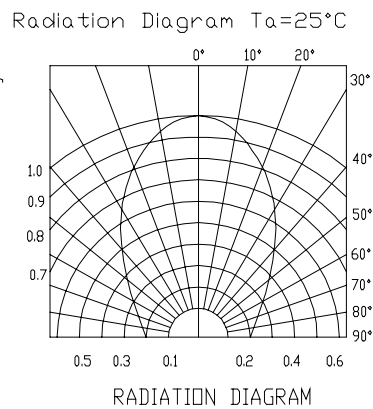
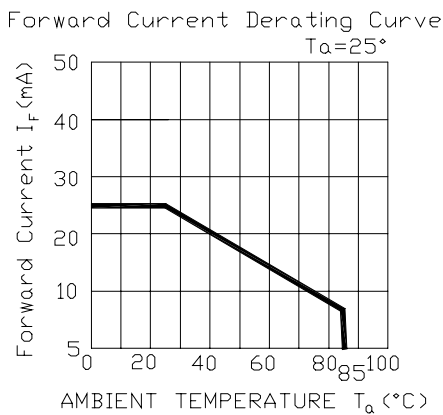
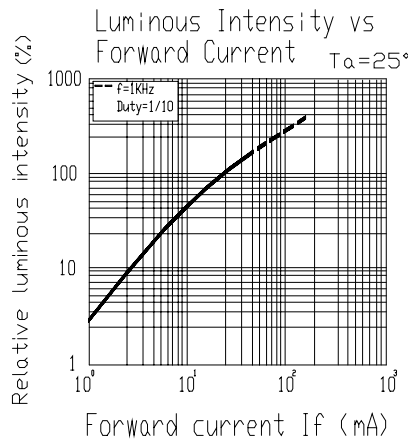
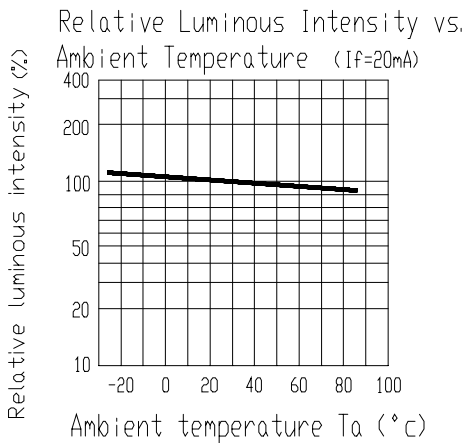
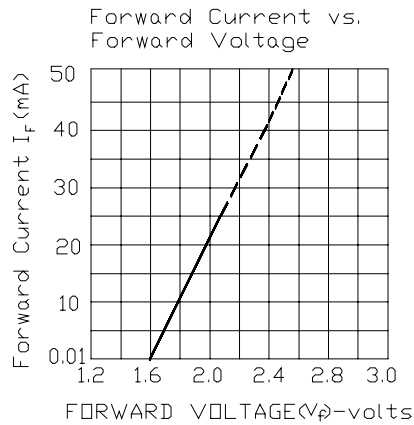
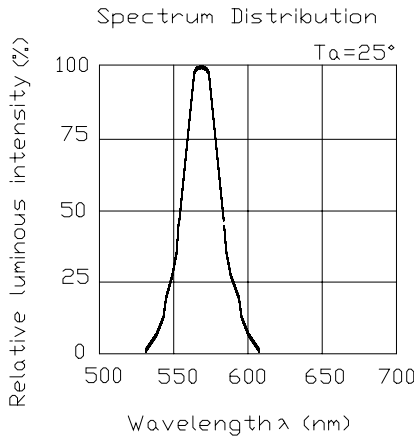
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Typical Electro-Optical Characteristic Curves:

(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	$I_v \leq I_{vt} * 0.5$ 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 $I_F = 20mA$	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 , 6Bags/1Box

2.10Boxes/1Carton

Label Form Specification

EVERLIGHT

CPN:

P/N:



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QTY:



CAT:

HUE:

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.

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单击下面可查看定价，库存，交付和生命周期等信息

[>>Everlight \(亿光\)](#)