



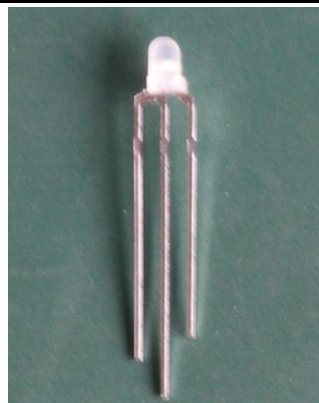
Technical Data Sheet

3.0mm Multi-Color Round Type LED Lamps

209-3SURYGW/S530-A3/R2

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 209-3 LED lamp contain two integral chips and is available as both bicolor and bipolar types.

The Hyper Red and Super Yellow Green light is emitted by diodes of AlGaInP 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

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PART NO.	Chip		Lens Color
	Material	Emitted Color	
209-3SURYGW/S530-A3/R2	AlGaInP	Hyper Red	White Diffused
	AlGaInP	Super Yellow Green	



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Electro-Optical Characteristics (Ta=25)

Parameter	Symbol		Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	SUR/S530	8	16	/	mcd	IF= 20 mA
		SYG/S530	4	8	/		
Viewing Angle	2 1/2		/	80	/	deg	IF= 20 mA
Peak Wavelength	p	SUR/S530	/	632	/	nm	IF= 20 mA
		SYG/S530	/	575	/		
Dominant Wavelength	d	SUR/S530	/	624	/	nm	IF= 20 mA
		SYG/S530	/	573	/		
Spectrum Radiation Bandwidth		SUR/S530	/	20	/	nm	IF= 20 mA
		SYG/S530	/	20	/		
Forward Voltage	VF	SUR/S530	/	2.0	2.4	V	IF= 20 mA
		SYG/S530	/	2.0	2.4		
Reverse Current	IR	SUR/S530	/	/	10	μ A	VR= 5 V
		SYG/S530	/	/	10		



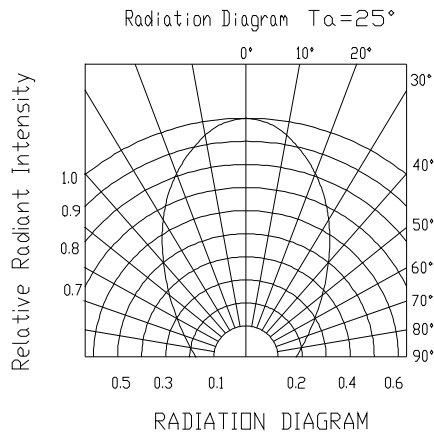
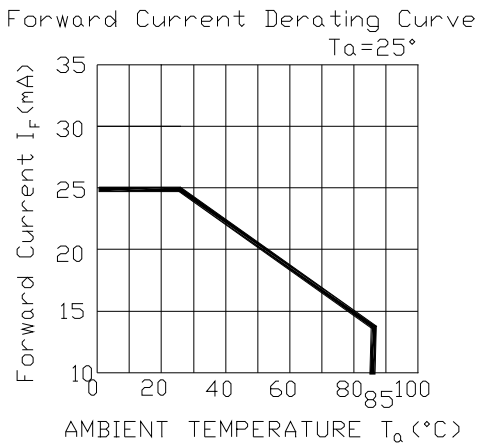
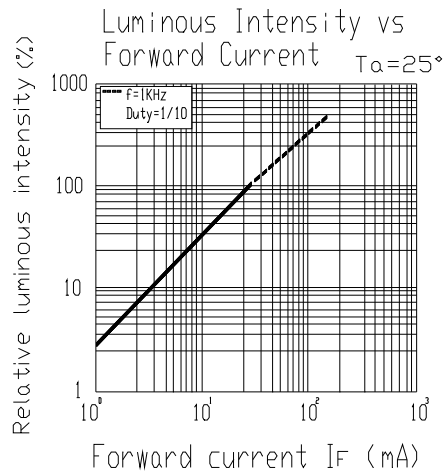
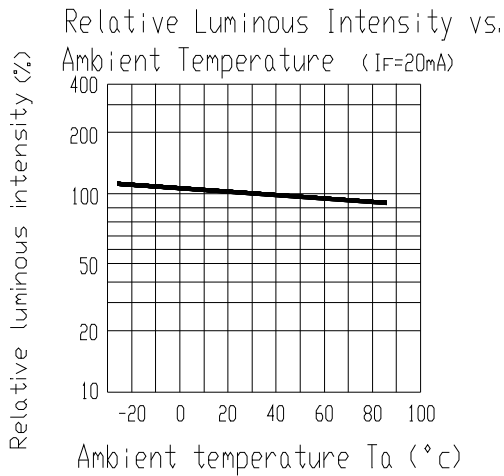
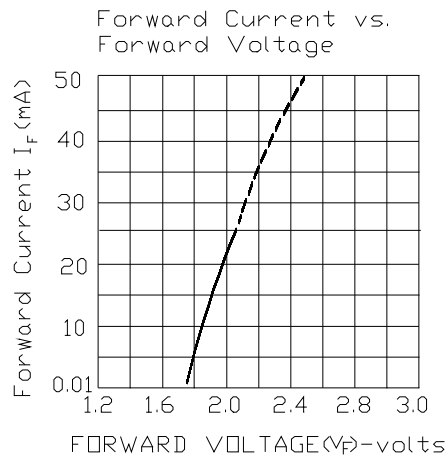
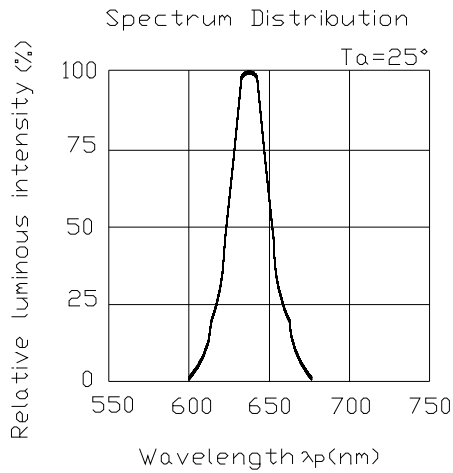
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Typical Electro-Optical Characteristic Curves:

(SUR)





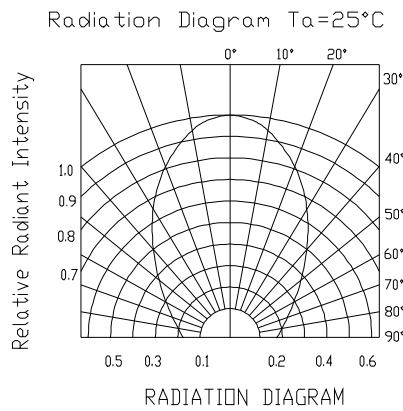
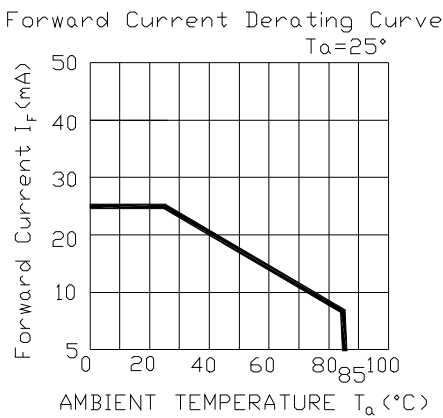
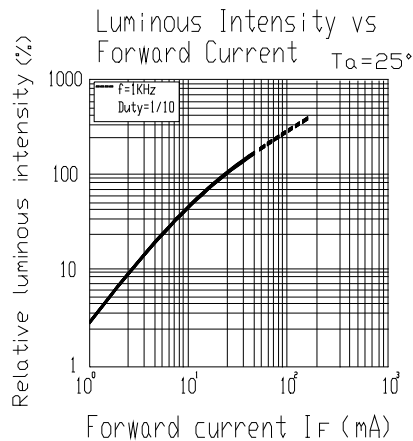
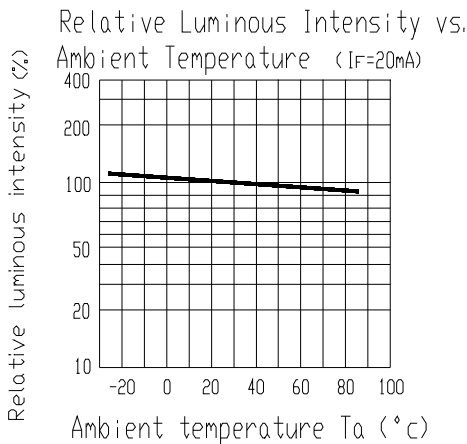
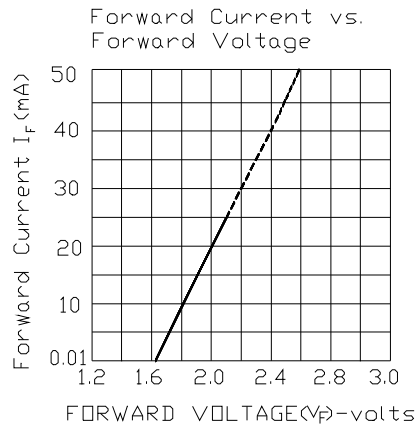
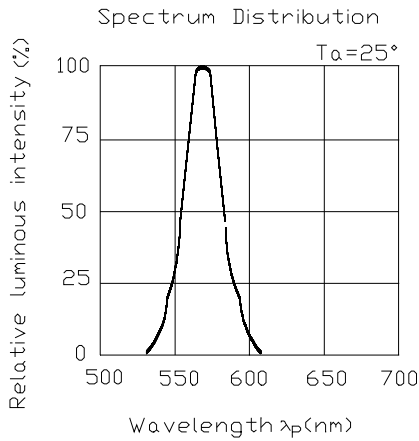
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3.0mm Multi-Color Round Type LED Lamps

209-3SURYGW/S530-A3/R2

Typical Electro-Optical Characteristic Curves:

(SYG)





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Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	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 IF = 20mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85 / 85% RH	1000 HRS	76 PCS	0/1



Technical Data Sheet

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Packing Quantity Specification

1. 500PCS/1Bag , 5Bags/1Box
2. 10Boxes/1Carton

Label Form Specification



CPN:
P/N:



209-3SURSYGW/S530-A3/R2

QTY:



CAT:
HUE:
REF:

LOT NO: EL



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

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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Rev.: 1

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Device Number : CDLE-020-1535

Prepared date: 2007/7/27

Prepared by: Xiuzhen Feng

Revision : 1

Release Date:2008-09-20 00:15:31.0

LifecyclePhase:正式發行

Expired Period: Forever