



Technical Data Sheet

5.0mm Multi-Color Round Type LED Lamps

339-1SURSYGC/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



■ Descriptions :

- The 339-1 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	
339-1SURSYGC/S530-A3	AlGaInP	Hyper Red	Water Clear
	AlGaInP	Super Yellow Green	



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Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I _v SUR/S530	160	250	/	mcd	I _F = 20 mA
	SYG/S530	40	63	/		
Viewing Angle	2θ 1/2	/	25	/	deg	I _F = 20 mA
Peak Wavelength	λ _p SUR/S530	/	632	/	nm	I _F = 20 mA
	SYG/S530	/	575	/		
Dominant Wavelength	λ _d SUR/S530	/	624	/	nm	I _F = 20 mA
	SYG/S530	/	573	/		
Spectrum Radiation Bandwidth	Δλ SUR/S530	/	20	/	nm	I _F = 20 mA
	SYG/S530	/	20	/		
Forward Voltage	V _F SUR/S530	/	2.0	2.4	V	I _F = 20 mA
	SYG/S530	/	2.0	2.4		
Reverse Current	I _R SUR/S530	/	/	10	μ A	V _R = 5 V
	I _R SYG/S530	/	/	10	μ A	



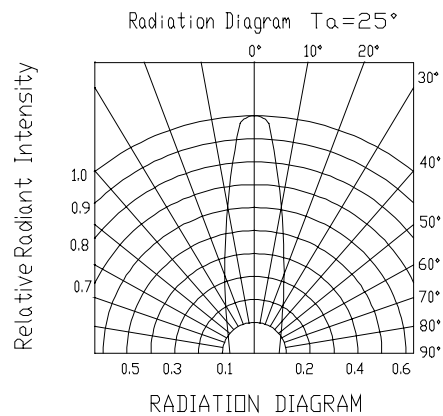
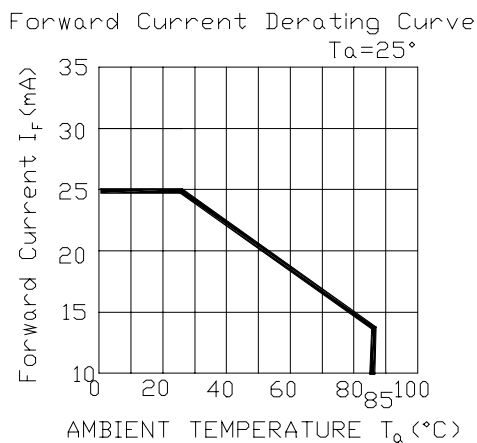
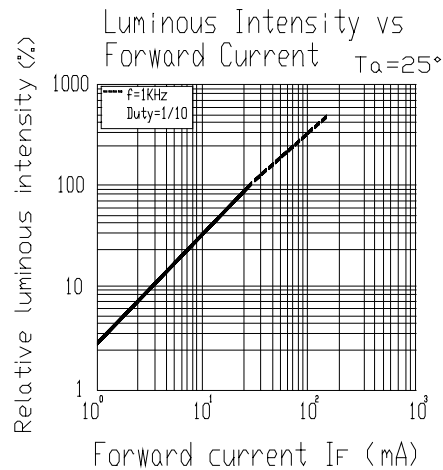
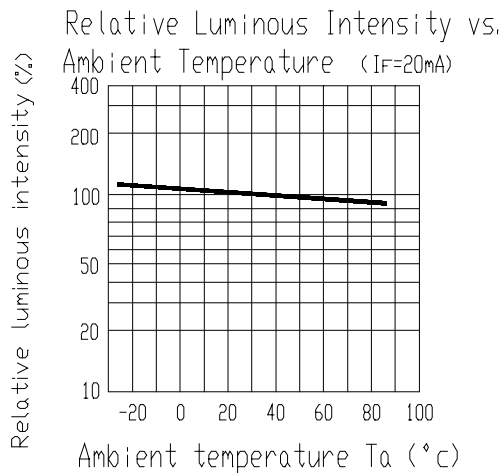
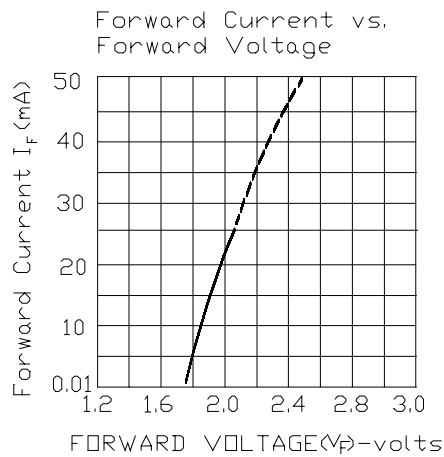
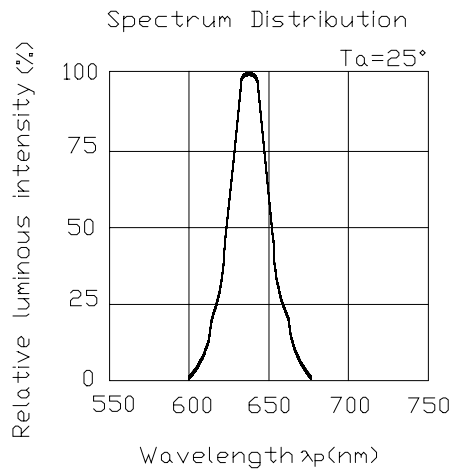
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Typical Electro-Optical Characteristic Curves:

(SUR)





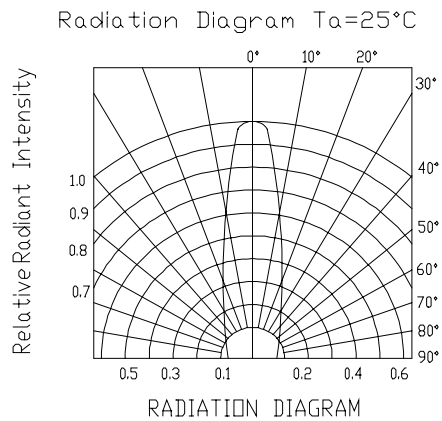
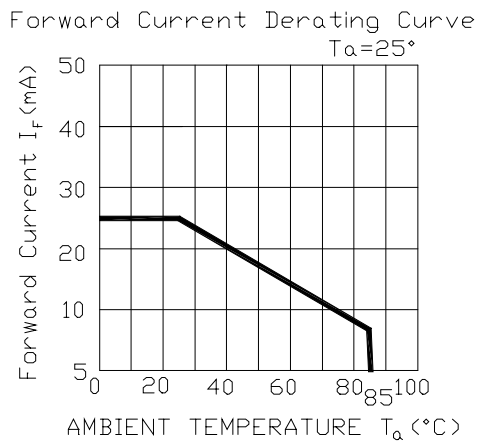
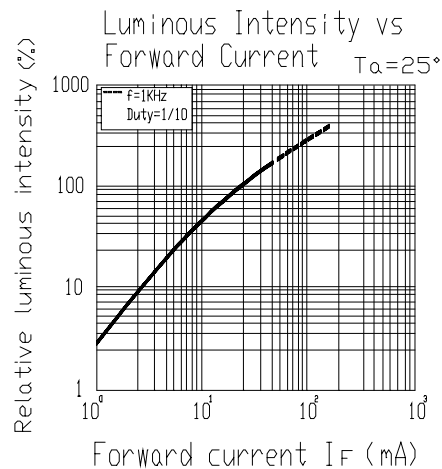
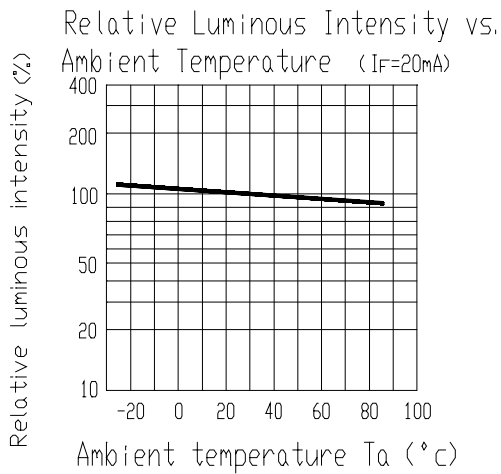
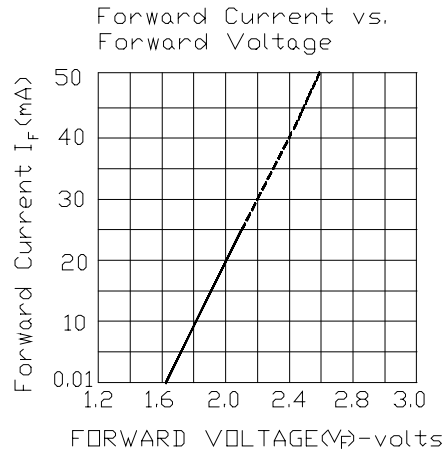
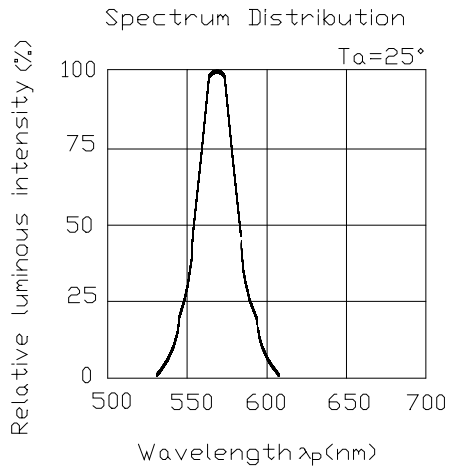
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Typical Electro-Optical Characteristic Curves:

(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 ∩ 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 $I_F = 20\text{mA}$	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 , 4Bags/1Box

2.10Boxes/1Carton

Label Form Specification

EVERLIGHT

CPN:

P/N:



339-1SURSYGC/S530-A3

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: 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.
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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