



## Technical Data Sheet

### 5.0mm Multi-Color Round Type LED Lamps

#### 339-1SURSYGW/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 339-1 LED lamps 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  $\text{AlGaInP}$  and  $\text{AlGaInP}$  respectively.
- Type of bipolar lamps are both White Diffused and Color Diffused while the bicolor are White Diffused

#### ■ Applications :

- TV set
- Monitor
- Telephone
- Computer

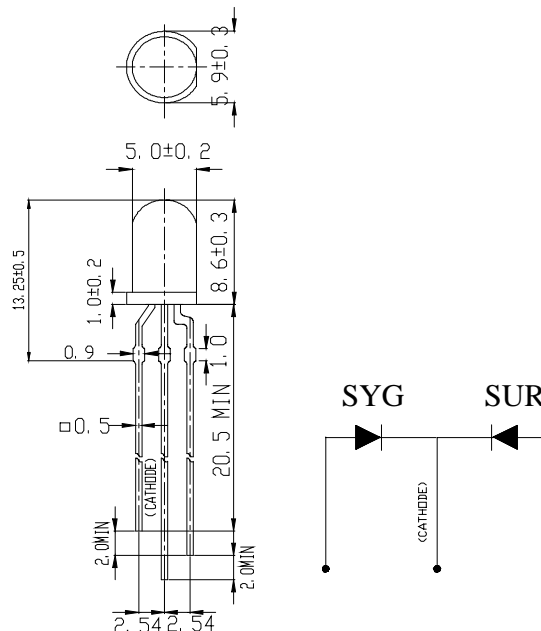
PART NO.	Chip		Lens Color
	Material	Emitted Color	
339-1SURSYGW/S530-A3	$\text{AlGaInP}$	Hyper Red	White Diffused
	$\text{AlGaInP}$	Super Yellow Green	

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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  $\pm 0.25$ mm.

#### Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating		Unit
Forward Current	I <sub>F</sub>	SUR/S530	25	mA
		SYG/S530	25	
Operating Temperature	T <sub>opr</sub>	-40 to +85		°C
Storage Temperature	T <sub>stg</sub>	-40 to +100		°C
Soldering Temperature	T <sub>sol</sub>	260 ± 5		°C
Electrostatic Discharge	ESD	2000		V
Power Dissipation	P <sub>d</sub>	SUR/S530	60	mW
		SYG/S530	60	
Peak Forward Current	I <sub>F(Peak)</sub>	SUR/S530	160	mA
		SYG/S530	160	
Reverse Voltage	V <sub>R</sub>	5		V

Note: \*1: I<sub>F</sub>P Conditions -- Pulse Width  $\leq 1$ msec and Duty  $\leq 1/10$ .

\*2: Soldering time  $\leq 5$  seconds.



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**Electro-Optical Characteristics (Ta=25°C)**

Parameter	Symbol		Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	SUR/S530	25	50	/	mcd	IF= 20 mA
		SYG/S530	16	32	/		
Viewing Angle	2θ 1/2		/	100	/	deg	IF= 20 mA
Peak Wavelength	λ p	SUR/S530	/	632	/	nm	IF= 20 mA
		SYG/S530	/	575	/		
Dominant Wavelength	λ d	SUR/S530	/	624	/	nm	IF= 20 mA
		SYG/S530	/	573	/		
Spectrum Radiation Bandwidth	Δ λ	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		/	/	10	μ A	VR= 5 V



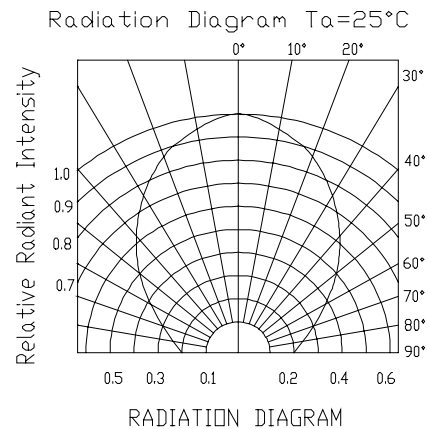
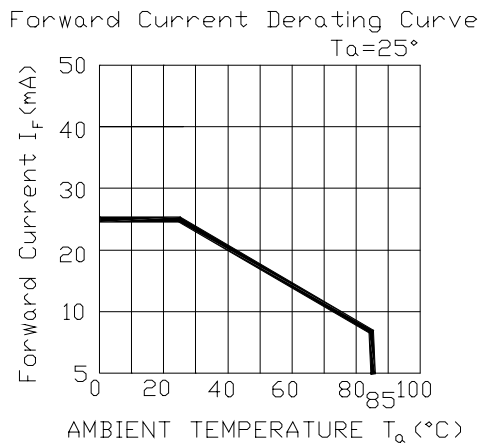
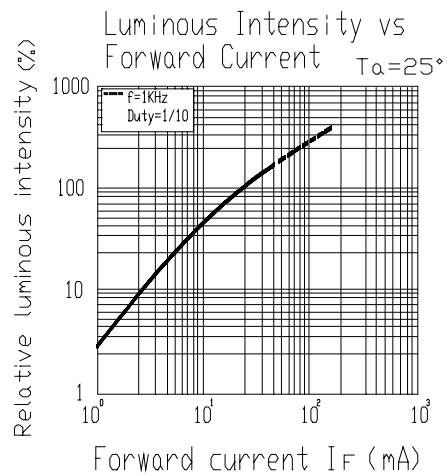
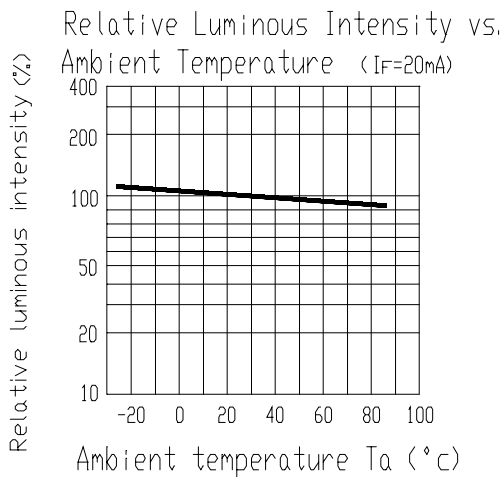
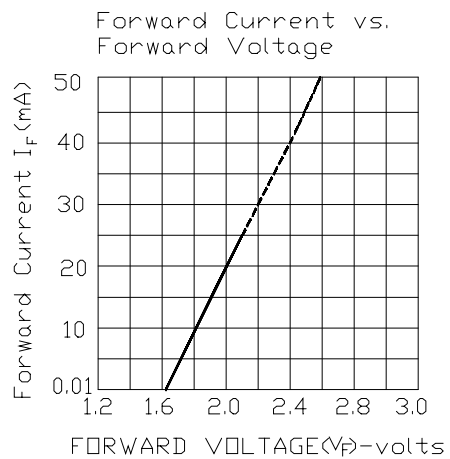
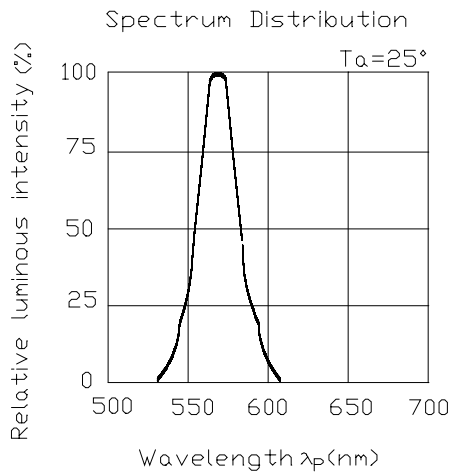
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## 5.0mm Multi-Color Round Type LED Lamps

### 339-1SURSYGW/S530-A3

#### ■ Typical Electro-Optical Characteristic Curves:

( SYG )





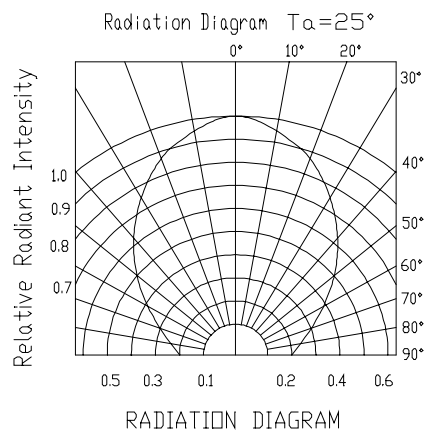
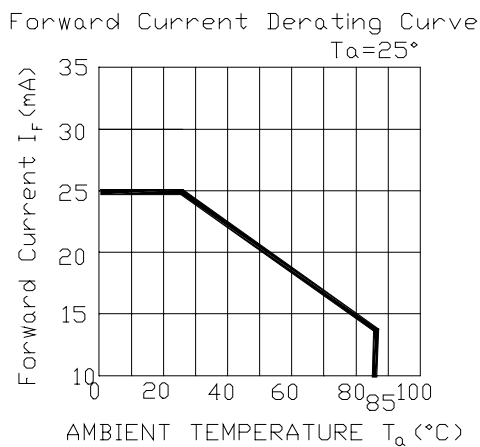
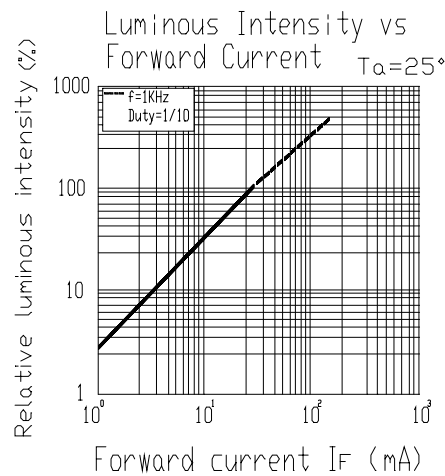
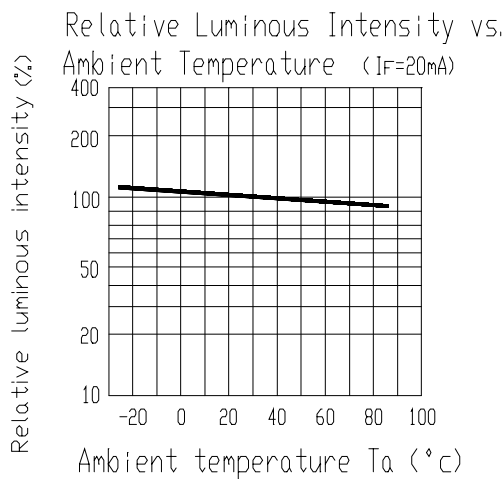
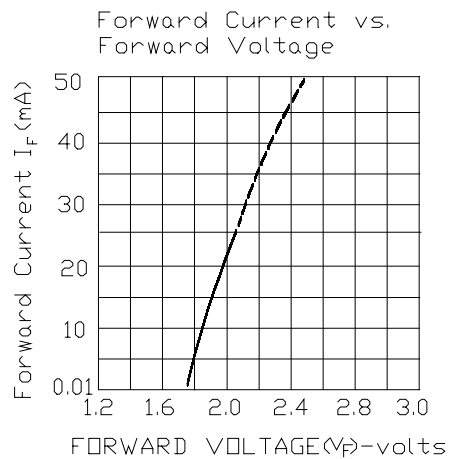
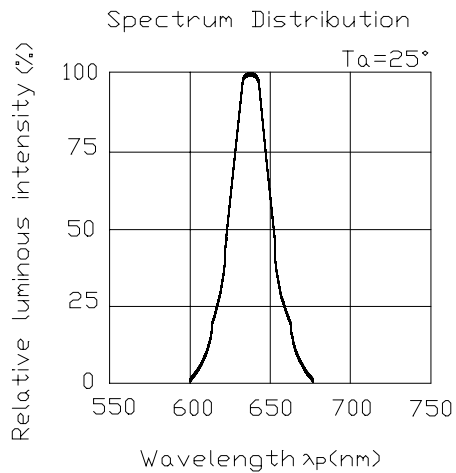
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#### ■ Typical Electro-Optical Characteristic Curves:

( SUR )





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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°C ± 5 °C	10 SEC	76 PCS	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



# Technical Data Sheet

## 5.0mm Multi-Color Round Type LED Lamps

**339-1SURSYGW/S530-A3**

### Packing Quantity Specification

1.500PCS/1Bag , 4Bags/1Box

2.10Boxes/1Carton

### Label Form Specification

EVERLIGHT

CPN:

P/N:



339-1SURSYGW/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.
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