



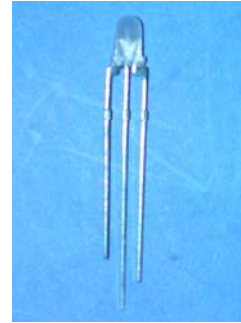
# Technical Data Sheet

## 3.0mm Multi-Color Round Type LED Lamps

### 1259-7SURSYGW/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
- This product itself will remain within RoHS compliant version



#### Descriptions :

- The 1259-7 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	
1259-7SURSYGW/S530-A3	AlGaInP	Hyper Red	White Diffused
	AlGaInP	Super Yellow Green	

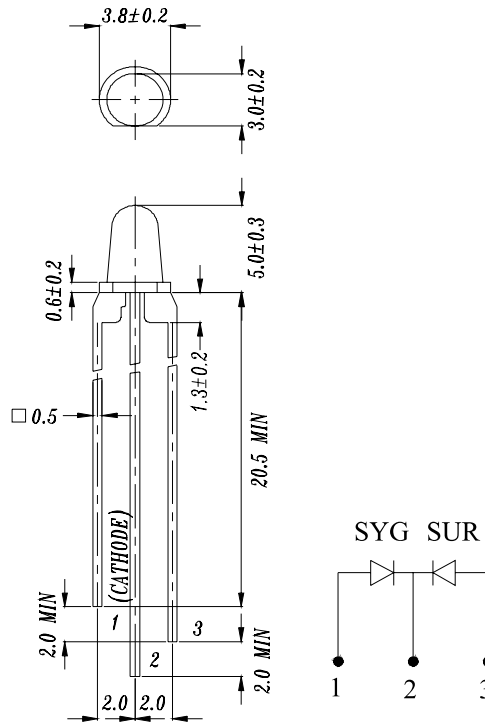


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### 1259-7SURSYGW/S530-A3

#### 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
		Model	Value	
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	SUR/S530	2000	V
		SYG/S530	2000	
Power Dissipation	P <sub>d</sub>	SUR/S530	60	mW
		SYG/S530	60	
Reverse Voltage	V <sub>R</sub>	5		V

Note: \*1: Soldering time  $\leq 5$  seconds.



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### 3.0mm Multi-Color Round Type LED Lamps

**1259-7SURSYGW/S530-A3**

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition	
Luminous Intensity	I <sub>v</sub> SUR/S530	40	80	/	mcd	I <sub>F</sub> = 20 mA	
	SYG/S530	16	32	/			
Viewing Angle	2θ 1/2	/	60	/	deg	I <sub>F</sub> = 20 mA	
Peak Wavelength	λ <sub>p</sub> SUR/S530	/	632	/	nm	I <sub>F</sub> = 20 mA	
	SYG/S530	/	575	/			
Dominant Wavelength	λ <sub>d</sub> SUR/S530	/	624	/	nm	I <sub>F</sub> = 20 mA	
	SYG/S530	/	573	/			
Spectrum Radiation	Δλ SUR/S530	/	20	/	nm	I <sub>F</sub> = 20 mA	
	SYG/S530	/	20	/			
Forward Voltage	V <sub>F</sub> SUR/S530	/	2.0	2.4	V	I <sub>F</sub> = 20 mA	
	SYG/S530	/	2.0	2.4			
Reverse Current	I <sub>R</sub>	SUR/S530	/	/	10	μA	V <sub>R</sub> = 5 V
Reverse Current		SYG/S530	/	/	10	μA	V <sub>R</sub> = 5 V



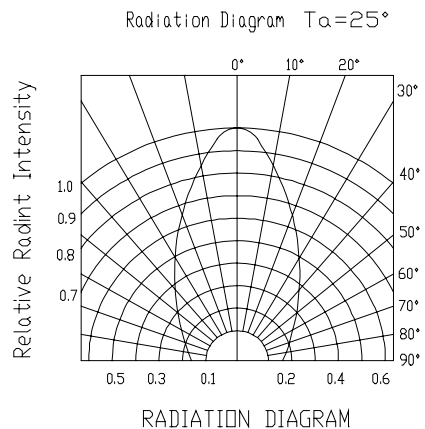
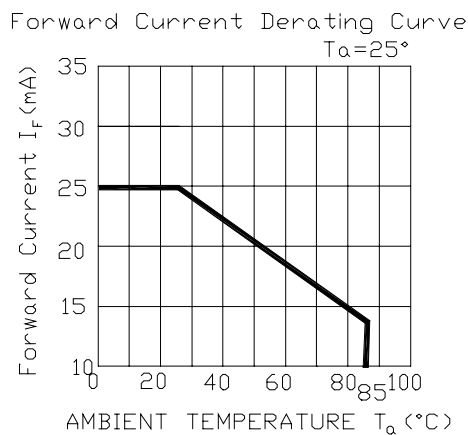
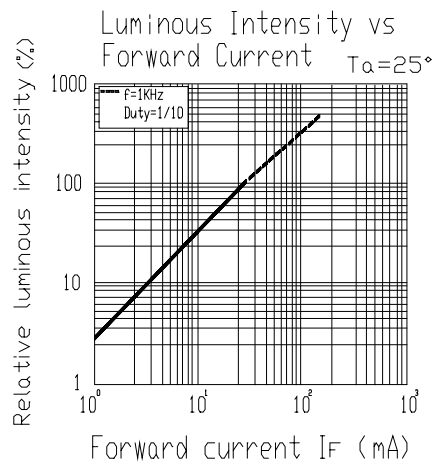
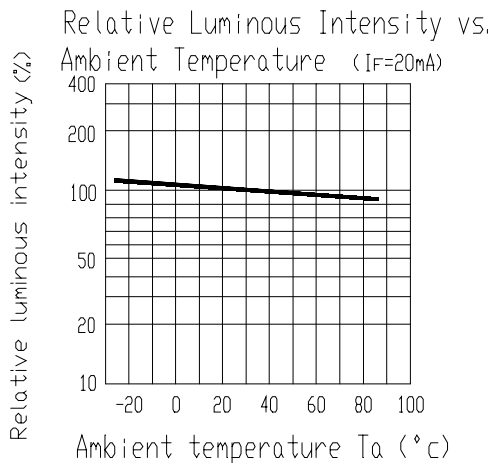
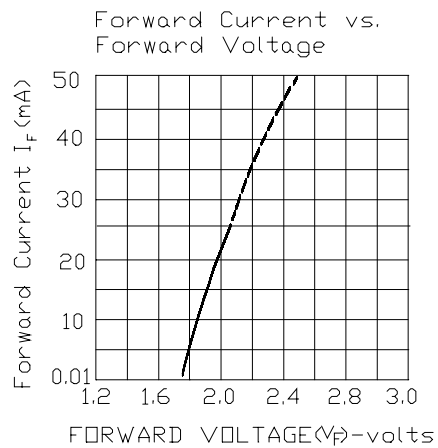
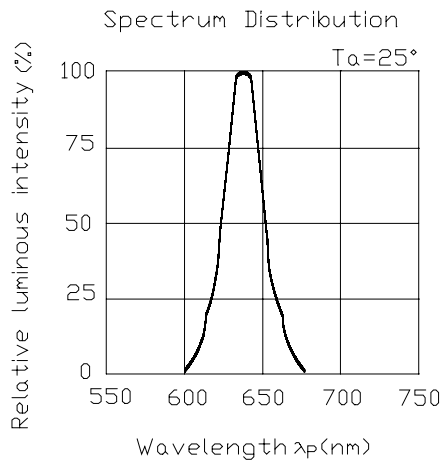
# Technical Data Sheet

## 3.0mm Multi-Color Round Type LED Lamps

### 1259-7SURSYGW/S530-A3

#### Typical Electro-Optical Characteristic Curves:

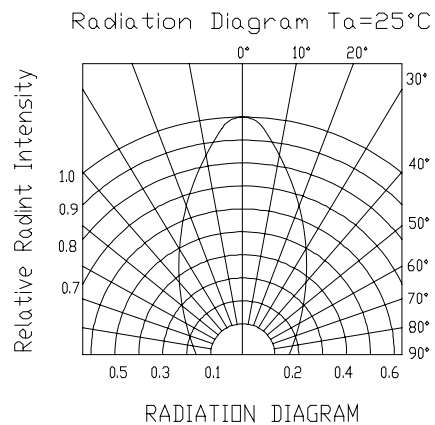
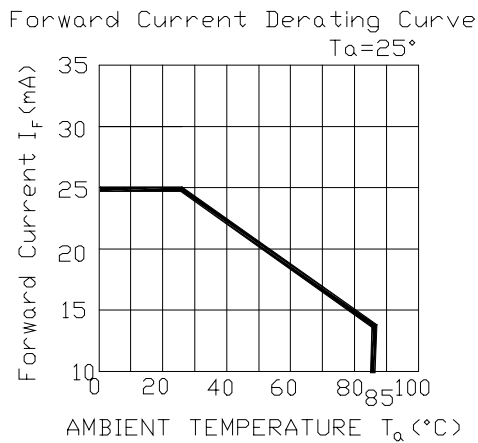
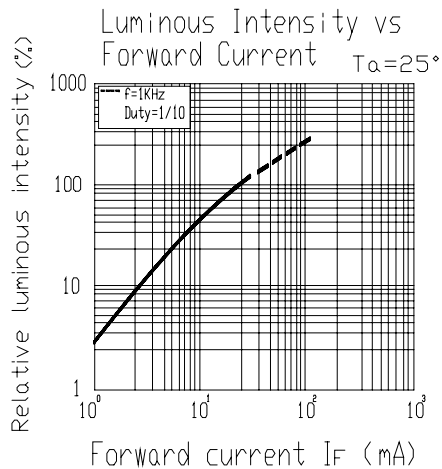
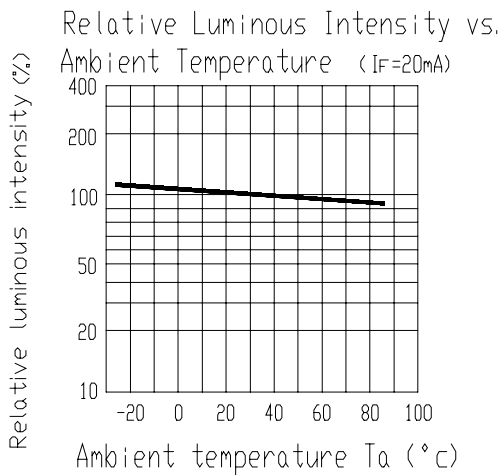
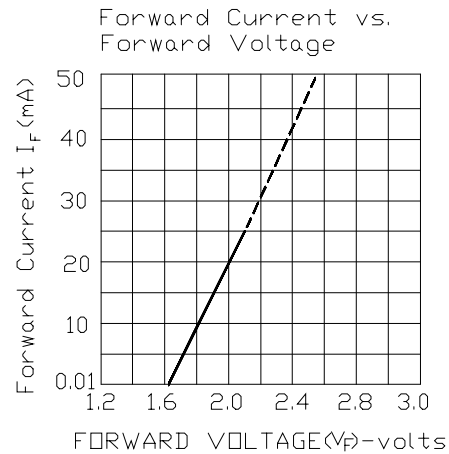
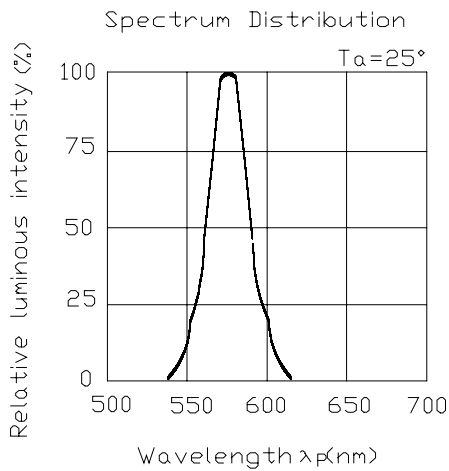
(SUR)



### 1259-7SURSYGW/S530-A3

#### Typical Electro-Optical Characteristic Curves:

(SYG)





## Technical Data Sheet

### 3.0mm Multi-Color Round Type LED Lamps

**1259-7SURSYGW/S530-A3**

#### ■ 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	300 CYCLES	76 PCS		0/1
6		L : -10°C 5min				
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 <sub>F</sub> = 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

**1259-7SURSYGW/S530-A3**

### Packing Quantity Specification

1.500PCS/1Bag , 5Bags/1Box

2.10Boxes/1Carton

### Label Form Specification

EVERLIGHT

CPN:

P/N:



1259-7SURSYGW/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: 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.
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EVERLIGHT ELECTRONICS CO., LTD.

Office: No 25, Lane 76, Sec 3, Chung Yang Rd,

Tucheng Tainpei 236 Taiwan R.O.C.

Tel: 886-2-2267-2000, 2267-9936

Fax: 886-2267-6244, 2267-6189, 2267-6306

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