



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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

■ Descriptions :

- The 1259-7 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 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

PART NO.	Chip		Lens Color
	Material	Emitted Color	
1259-7SURSYGW/S530-A3	AlGaInP	Hyper Red	White Diffused
	AlGaInP	Super Yellow Green	

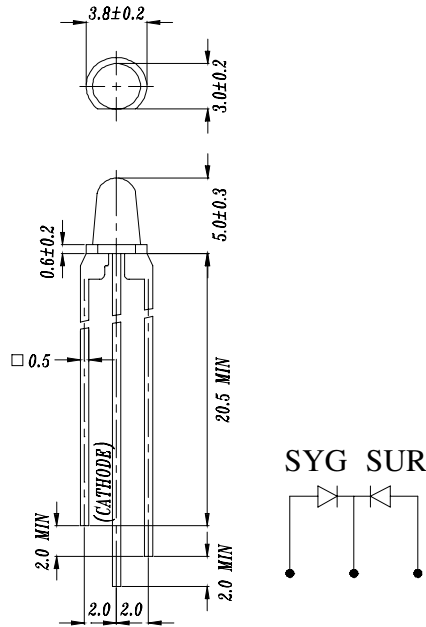


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Package Dimensions



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 ± 0.25 mm.

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

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

Note: *1:IFP Conditions --Pulse Width ≤ 1 msec and Duty $\leq 1/10$.

*2:Soldering time ≤ 5 seconds.



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Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol		Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I _v	SUR/S530	40	80	/	mcd	I _F = 20 mA
		SYG/S530	16	32	/		
Viewing Angle	2θ 1/2		/	60	/	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		/	/	10	μA	V _R = 5 V



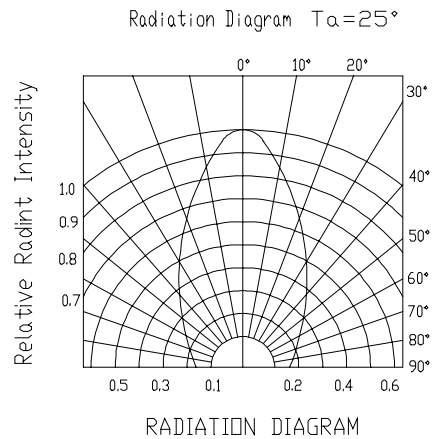
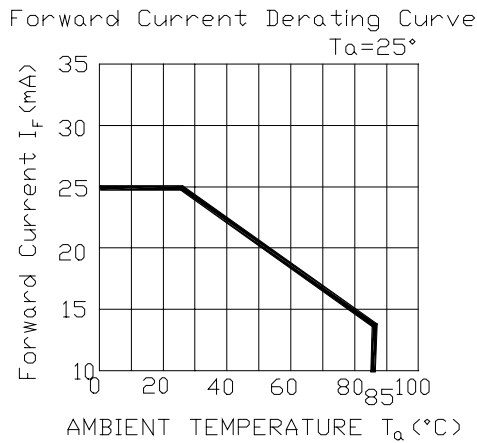
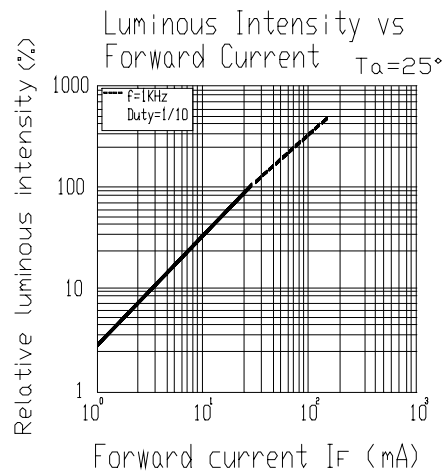
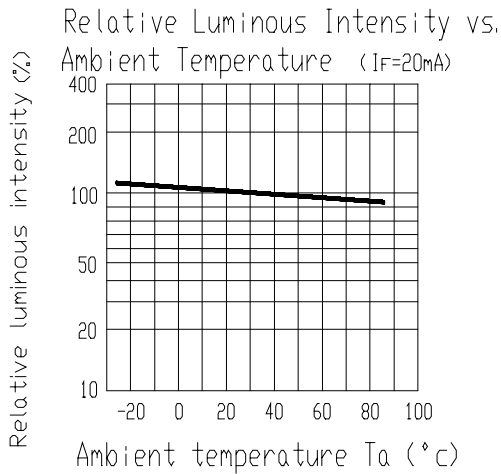
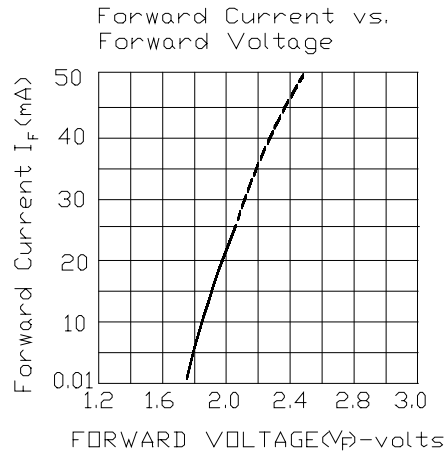
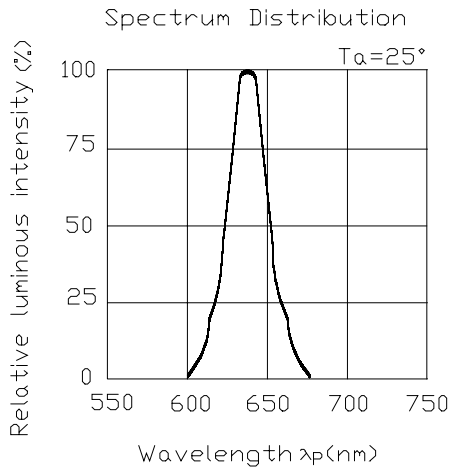
Technical Data Sheet

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■ Typical Electro-Optical Characteristic Curves:

(SUR)





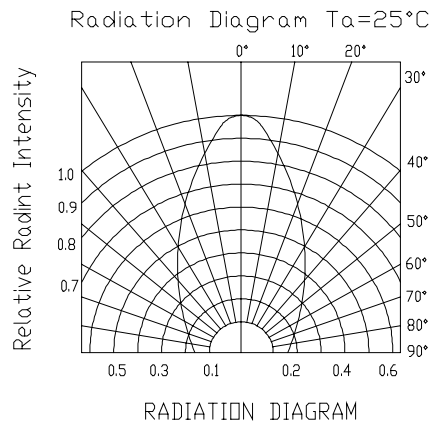
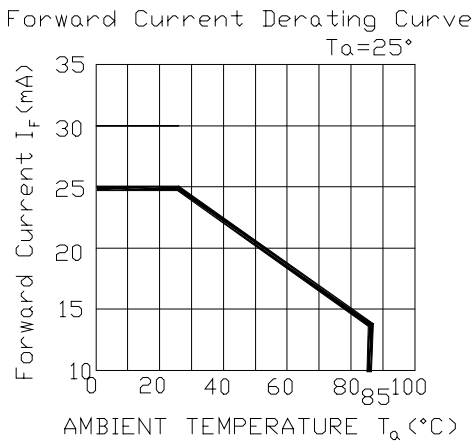
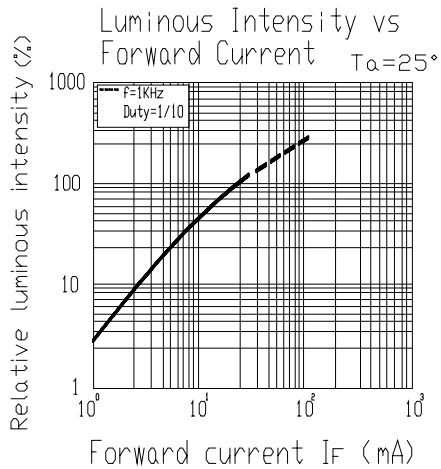
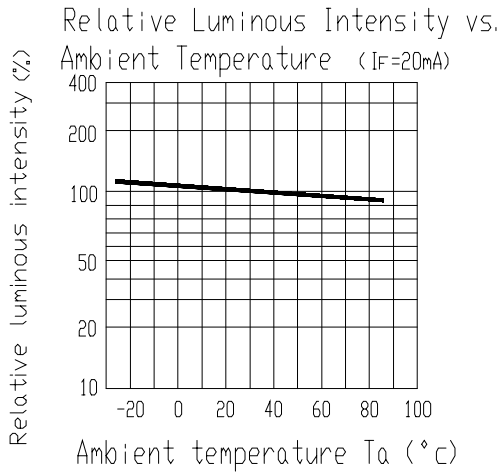
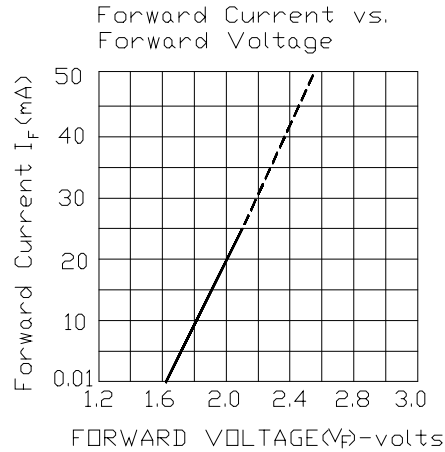
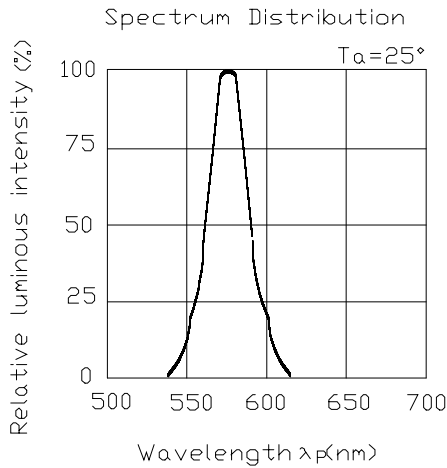
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3.0mm Multi-Color Round Type LED Lamps

1259-7SURSYGW/S530-A3

■ Typical Electro-Optical Characteristic Curves:

(SYG)





Technical Data Sheet

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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

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Packing Quantity Specification

- 1.1000PCS/1Bag , 6Bags/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: 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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EVERLIGHT ELECTRONICS CO., LTD.

Office: No 25, Lane 76, Sec 3, Chung Yang Rd,
Tucheng Tainei 236 Taiwan R O C.

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

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

<http://www.everlight.com>