



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!



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Technical Data Sheet

5.0mm Multi-Color Round Type LED Lamps

339SURSYGW/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



Descriptions :

- The 339LED 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

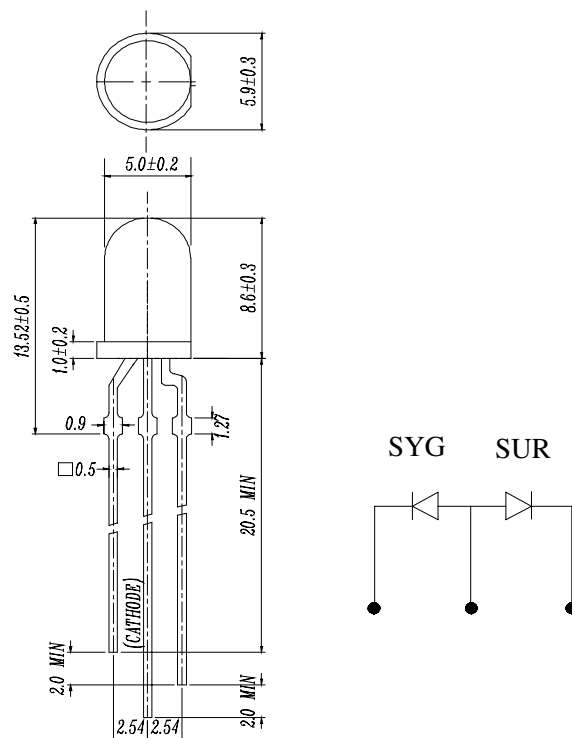
PART NO.	Chip		Lens Color
	Material	Emitted Color	
339SURSYGW/R2	AlGaInP	Hyper Red	White Diffused
	AlGaInP	Super Yellow Green	

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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
Forward Current	I _F	SUR/S530	25	mA
		SYG/S530	25	
Operating Temperature	T _{opr}	-40 to +85		°C
Storage Temperature	T _{stg}	-40 to +100		°C
Soldering Temperature	T _{sol}	260 \pm 5		°C
Electrostatic Discharge	ESD	SUR/S530	2000	V
		SYG/S530	2000	
Power Dissipation	P _d	SUR/S530	60	mW
		SYG/S530	60	
Reverse Voltage	V _R	5		V

Note: *1: Soldering time \leq 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	20	32	/	mcd	I _F = 20 mA
	SYG/S530	10	20	/		
Viewing Angle	2 θ 1/2	/	80	/	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	$\Delta \lambda$ SUR/S530	/	20	/	nm	I _F = 20 mA
	SYG/S530	/	20	/		
Forward Voltage	V _F SUR/S530	/	2	2.4	V	I _F = 20 mA
	SYG/S530	/	2	2.4		

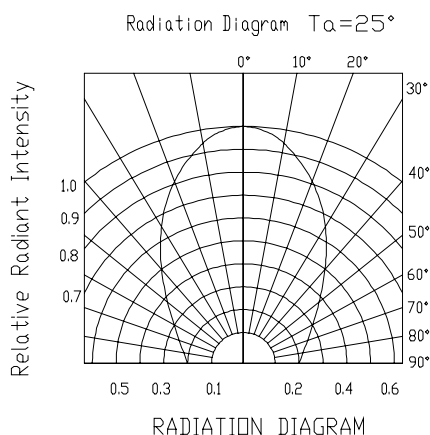
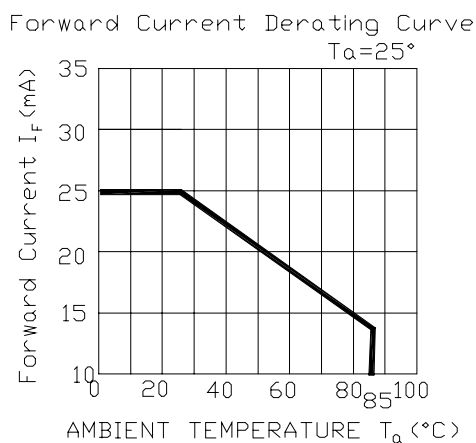
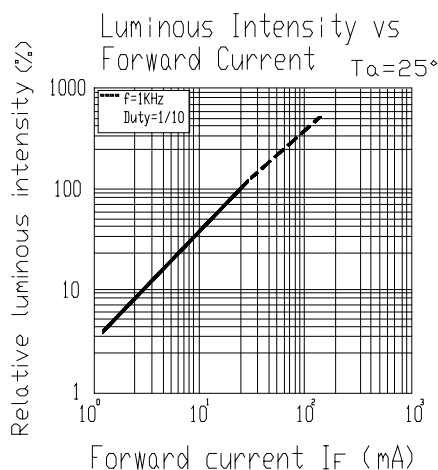
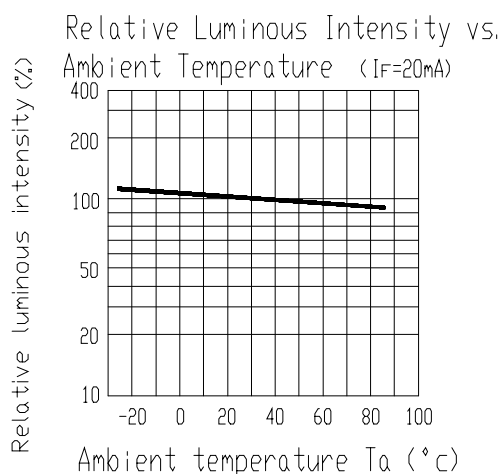
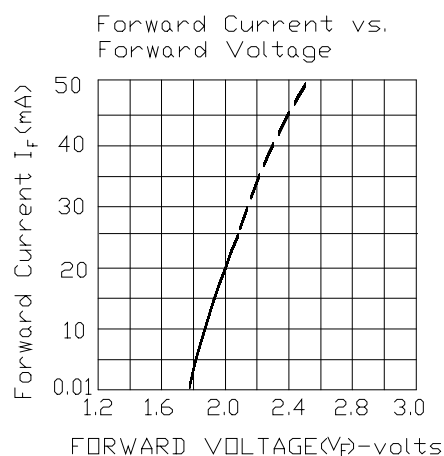
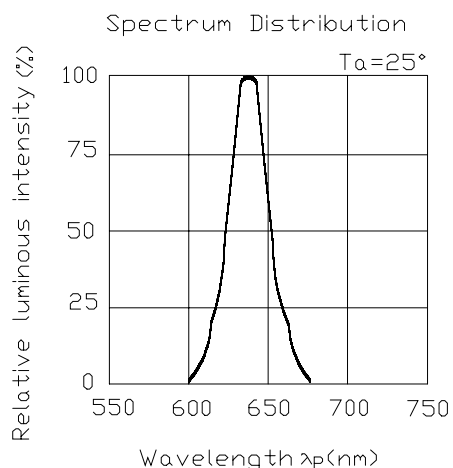
Technical Data Sheet

5.0mm Multi-Color Round Type LED Lamps

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Typical Electro-Optical Characteristic Curves:

(SUR)



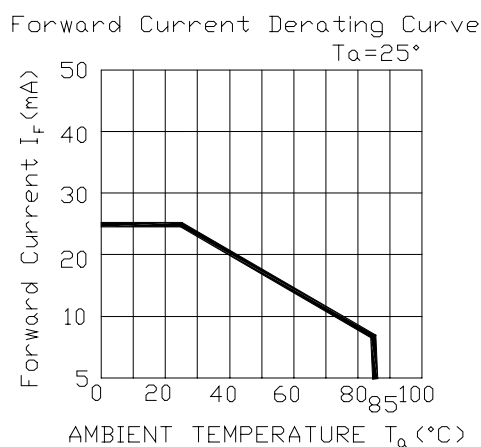
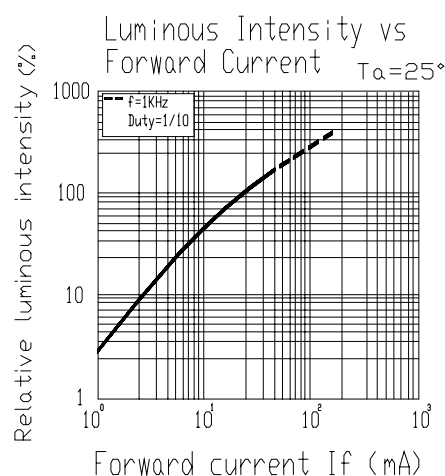
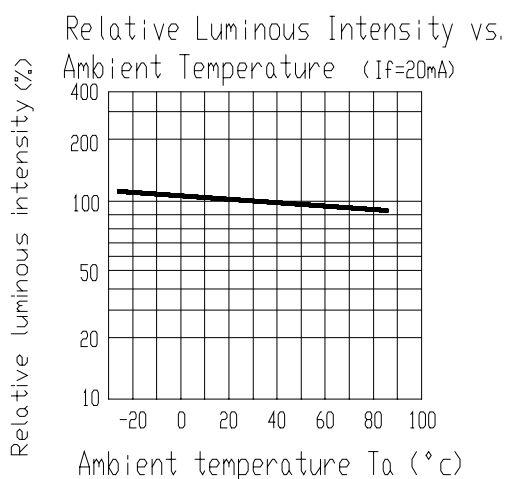
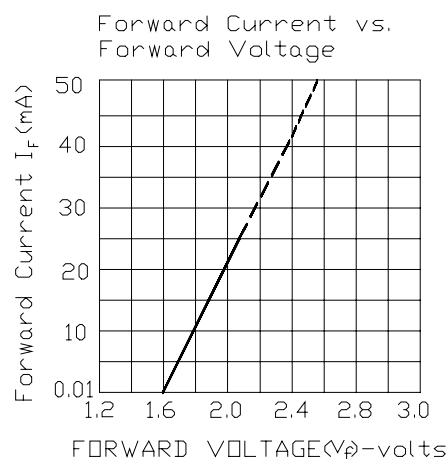
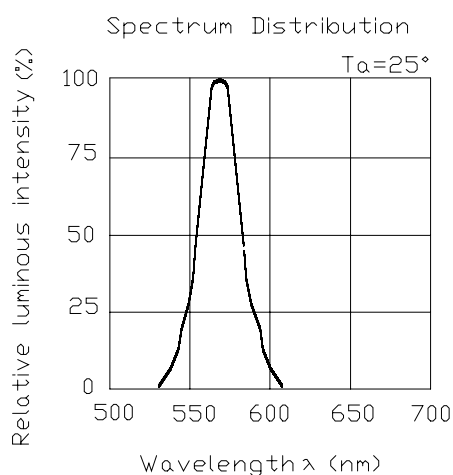
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5.0mm Multi-Color Round Type LED Lamps

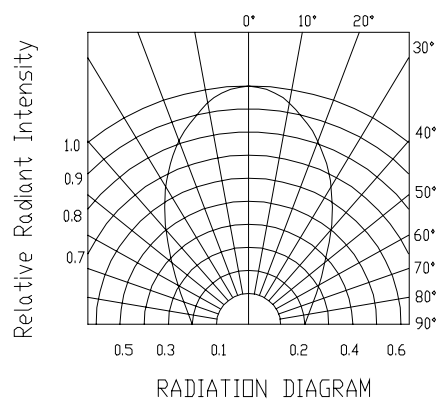
339SURSYGW/R2

Typical Electro-Optical Characteristic Curves:

(SYG)



Radiation Diagram $T_a=25^\circ\text{C}$





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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



Technical Data Sheet

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Packing Quantity Specification

1.500PCS/1Bag , 4Bags/1Box

2.10Boxes/1Carton

Label Form Specification

EVERLIGHT

CPN:

P/N:



339SURSYGW/R2

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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