

Technical Data Sheet

5.0mm Multi-Color Round Type LED Lamps

336SDRSYGW/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 336LED lamps contain two integral chips and is available as both bicolor and bipolar types.
- Super Deep-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.

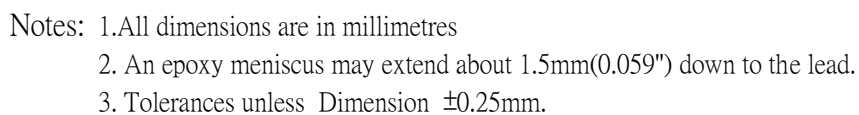
Applications :

- TV set
- Monitor
- Telephone
- Computer

PART NO.	Chip		Lens Color
	Material	Emitted Color	
336SDRSYGW/S530-A3	AlGaInP	Super Deep-Red	White Diffused
	AlGaInP	Super Yellow Green	



Package Dimensions



Parameter	Symbol	Rating		Unit
Forward Current	I _F	SDR/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 ± 5		°C
Electrostatic Discharge	ESD	SDR/S530	2000	V
		SYG/S530	2000	
Power Dissipation	P _d	SDR/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		Condition	Min.	Typ.	Max.	Unit
Forward Voltage	SDR/S530	V_F	$I_F = 20 \text{ mA}$	/	2.0	2.4	V
	SYG/S530			/	2.0	2.4	
Reverse Current	SDR/S530	I_R	$V_R = 5 \text{ V}$	/	/	10	μA
	SYG/S530			/	/	10	
Luminous Intensity	SDR/S530	I_v	$I_F = 20 \text{ mA}$	10	20	/	mcd
	SYG/S530			6.3	12.5	/	
Viewing Angle		$2\theta_{1/2}$	$I_F = 20 \text{ mA}$	/	100	/	deg
Peak Wavelength	SDR/S530	λ_p	$I_F = 20 \text{ mA}$	/	650	/	nm
	SYG/S530			/	575	/	
Dominant Wavelength	SDR/S530	λ_d	$I_F = 20 \text{ mA}$	/	639	/	nm
	SYG/S530			/	573	/	
Spectrum Radiation Bandwidth	SDR/S530	$\Delta\lambda$	$I_F = 20 \text{ mA}$	/	20	/	nm
	SYG/S530			/	20	/	



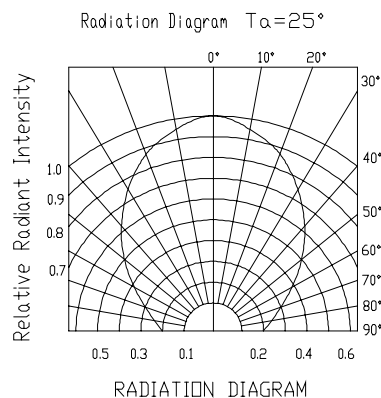
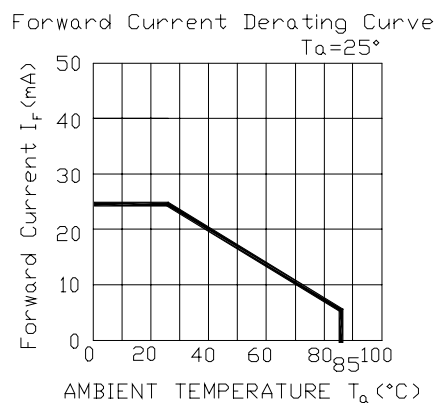
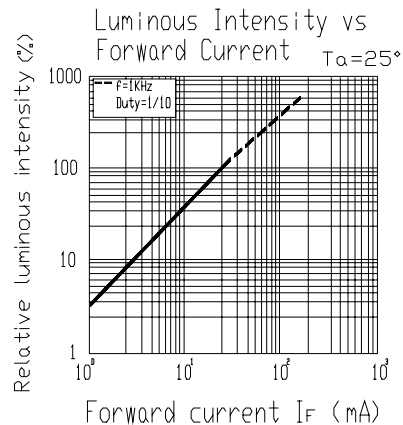
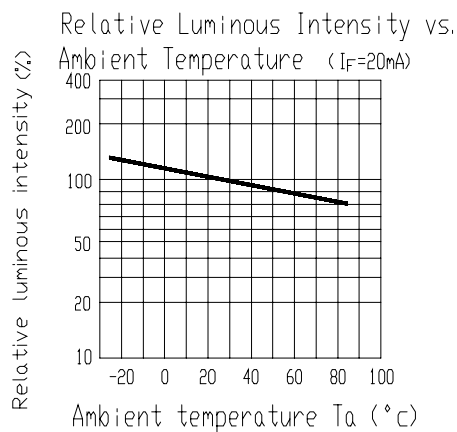
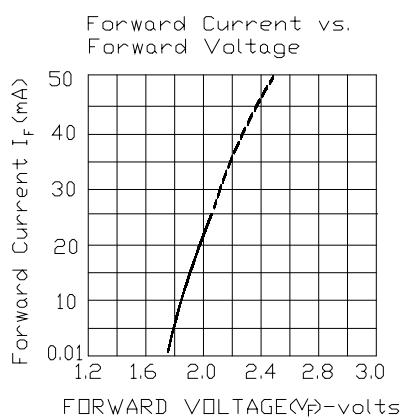
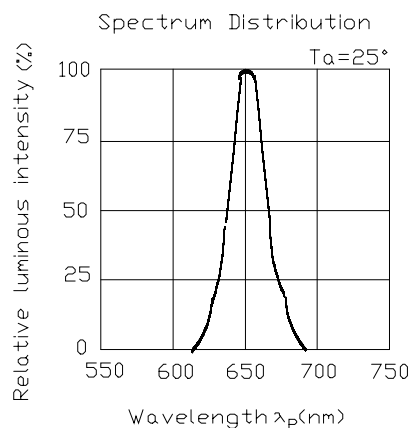
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■ Typical Electro-Optical Characteristic Curves:

(SDR)



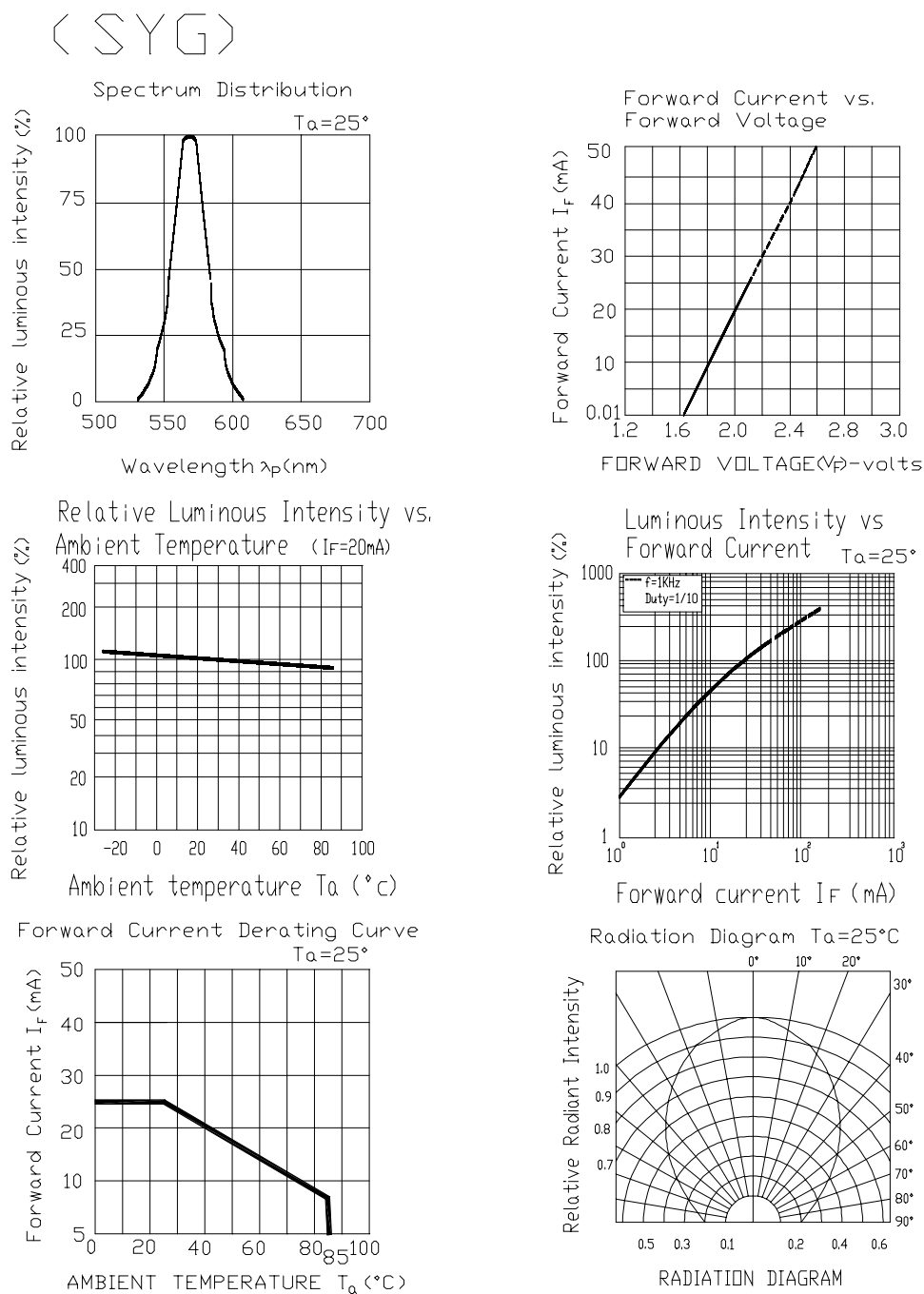


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Typical Electro-Optical Characteristic Curves:





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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 , 5Bags/1Box

2.10Boxes/1Carton

Label Form Specification

EVERLIGHT

CPN:

P/N:



336SDRSYGW/S530-A3

QTY:



CAT:

HUE:

REF:

LOT NO: EL



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

MADE IN TAIWAN

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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