EVERLIGHT

Technical Data Sheet
5.0mm Multi-Color Round Type LED Lamps

336SDRUYW/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 :

- The336LED lamps contain two integral chips and is available as both bicolor and bipolar types.
- Super Deep-Red and Super Yellow light is emitted by diodes of AlGaInP and AlGaInP
- Type of bicolar 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	
336SDRUYW/S530-A3	AlGaInP	Super Deep-Red	White Diffused
	AlGaInP	Super Yellow	

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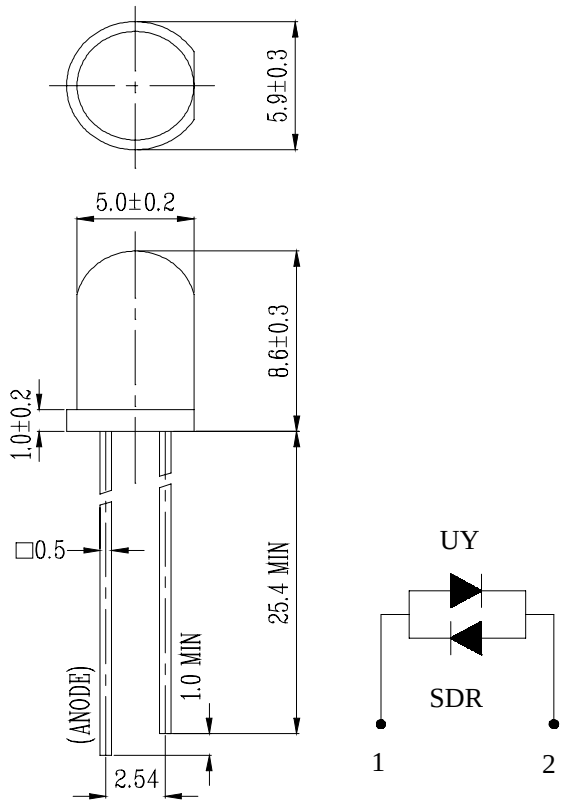
Package Dimensions



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 ±0.25mm.

■ Absolute Maximum Ratings at Ta = 25℃

Parameter	Symbol	Rating		Unit
Forward Current	IF	SDR/S530	25	mA
		UY/S530	25	
Operating Temperature	Topr	-40 to +85		℃
Storage Temperature	Tstg	-40 to +100		℃
Soldering Temperature	Tsol	260 ± 5		℃
Electrostatic Discharge	ESD	SDR/S530	2000	V
		UY/S530	2000	
Power Dissipation	Pd	SDR/S530	60	mW
		UY/S530	60	
Reverse Voltage	VR	5		V

Note: *1:Soldering time ≦ 5 seconds.

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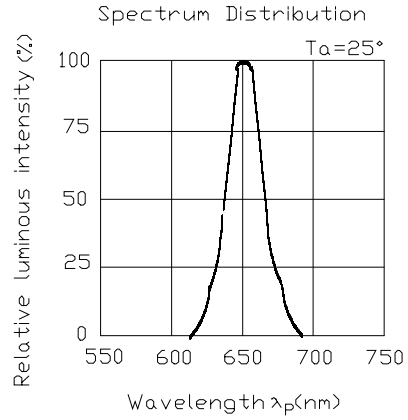
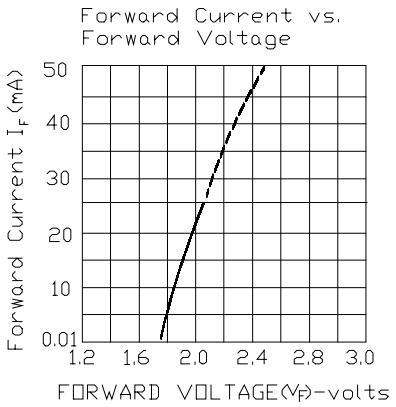
Electro-Optical Characteristics (Ta=25℃)

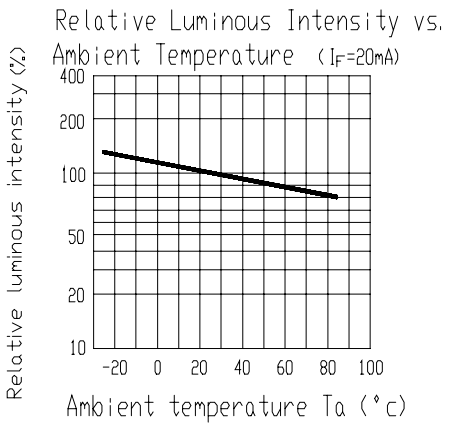
Parameter	Symbol		Condition	Min.	Typ.	Max.	Unit
Forward Voltage	SDR/S530	V_F	I_F= 20 mA	／	2.0	2.4	V
	UY/S530			／	2.0	2.4	
Reverse Current	SDR/S530	I_R	V_R= 5 V	／	／	10	μA
	UY/S530			／	／	10	
Luminous Intensity	SDR/S530	Iv	I_F= 10 mA	10	16	／	mcd
	UY/S530			20	32	／	
Viewing Angle		2θ 1/2	IF= 20 mA	／	100	／	deg
Peak Wavelength	SDR/S530	λp	I_F= 20 mA	／	650	／	nm
	UY/S530			／	591	／	
Dominant Wavelength	SDR/S530	λd	I_F= 20 mA	／	639	／	nm
	UY/S530			／	589	／	
Spectrum Radiation Bandwidth	SDR/S530	△λ	I_F= 20 mA	／	20	／	nm
	UY/S530			／	15	／	

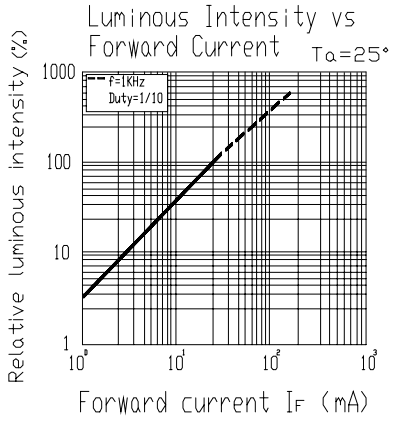
■ Typical Electro-Optical Characteristic Curves:

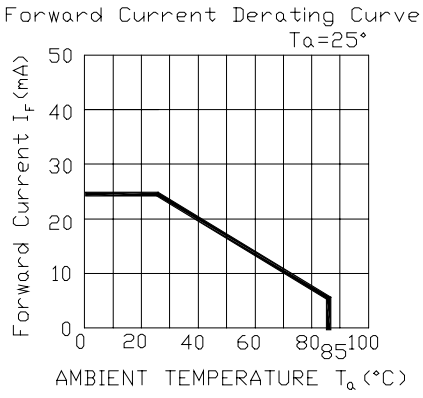
(SDR)

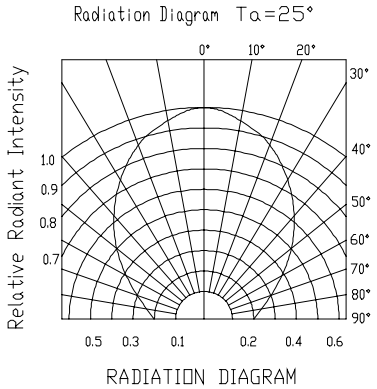






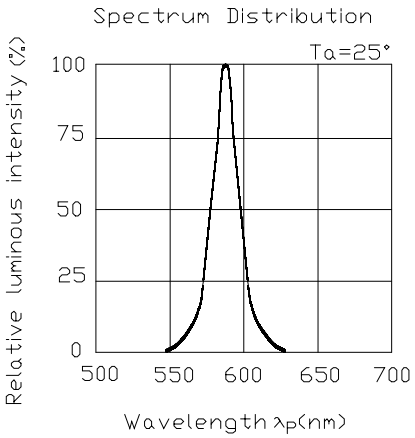


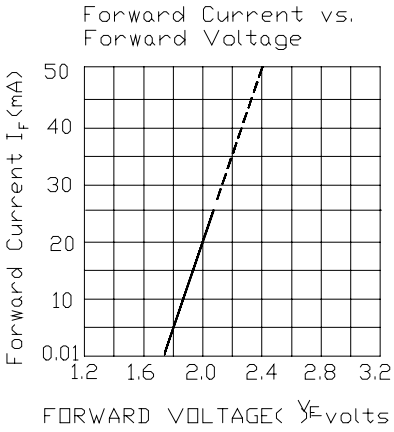


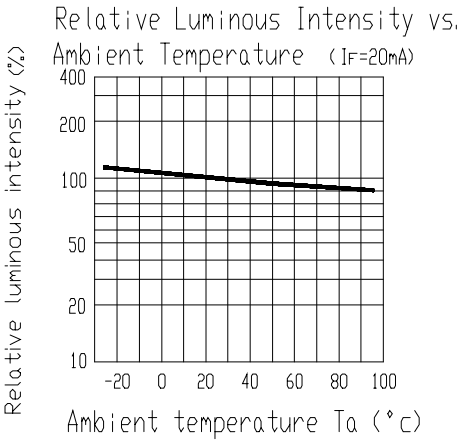


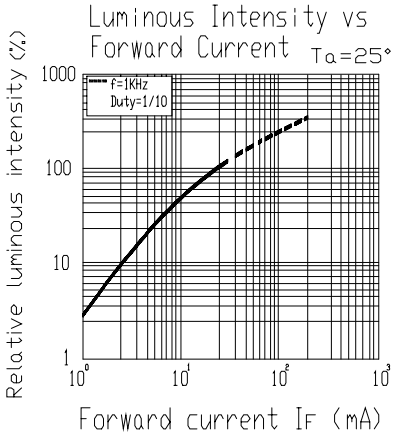
■ Typical Electro-Optical Characteristic Curves:

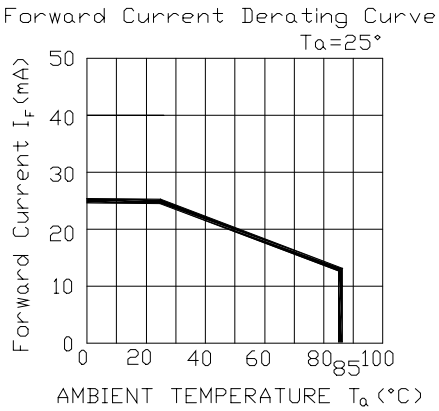
(UY)

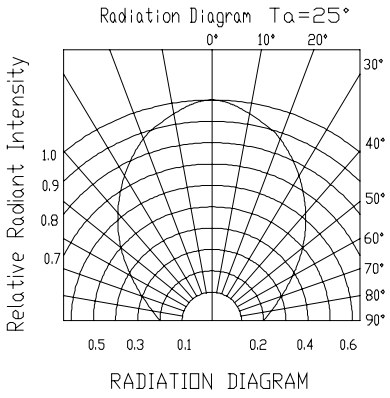












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■ Reliability test items and conditions:

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℃ ± 5 ℃	10 SEC	76 PCS	Iv≦ Ivt*0.5 or Vf≧U or Vf≦L	0/1
2	Temperature Cycle	H : +100℃ 15min ∫ 5 min L : -40℃ 15min	300 CYCLES	76 PCS		0/1
3	Thermal Shock	H : +100℃ 5min ∫ 10 sec L : -10℃ 5min	300 CYCLES	76 PCS		0/1
4	High Temperature Storage	TEMP : 100℃	1000 HRS	76 PCS		0/1
5	Low Temperature Storage	TEMP : -40℃	1000 HRS	76 PCS		0/1
6	DC Operating Life	TEMP : 25℃ I_F = 20mA	1000 HRS	76 PCS		0/1
7	High Temperature / High Humidity	85℃ / 85% RH	1000 HRS	76 PCS		0/1

Note： Ivt：To test Iv value of the chip before the reliablility test
Iv：The test value of the chip that has completed the reliablility test
U：Upper Specification Limit
L： Lower Specification Limit

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Packing Quantity Specification

1.500PCS/1Bag，5Bags/1Box

2.10Boxes/1Carton

Label Form Specification

CPN: Customer's Production Number

P/N : Production Number

QTY: Packing Quantity

CAT: Ranks

HUE: Dominant Wavelength

REF: Reference

LOT No: Lot Number

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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