



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-033-779 REV: 1.1

5.0mm Bi-Color (Multi-Color) Without common Polarity LEDs, T-1 3/4

PART NO : 336SURSYGW/S530-A2 ECN : Page: 1/5

■ Features :

- Two chips are matched for uniform light output, wide viewing angle
- Long life-solid state reliability
- I.C. compatible/Low power consuming

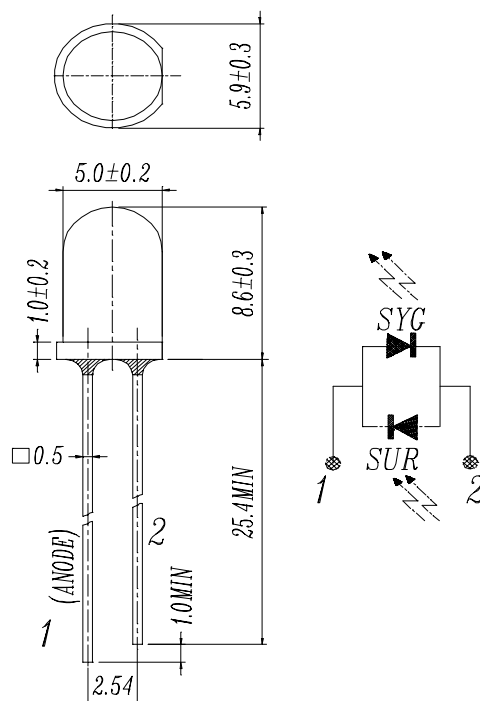
■ Description :

- The 336 LED lamp contain two integral chips and are 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

■ Package Dimension:



■ Notes :

1. All dimensions are millimeters.
2. An epoxy meniscus may extend about 1.5mm(0.059") down the lead.

PART NO	Chip		Lens Color
	Material	Emitted Color	
336SURSYGW/S530-A2	AlGaInP	Hyper Red	White Diffused
	AlGaInP	Super Yellow Green	



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■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	IF	SUR 25	mA
		SYG 25	
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	SUR 60	mW
		SYG 60	
Peak Forward Current (Duty 1/10 @ 1KHZ)	IF(Peak)	SUR 160	mA
		SYG 160	
Reverse Voltage	VR	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	SUR 40	63	/	mcd	IF= 20 mA
		SYG 25	50	/		
Viewing Angle	2θ 1/2	/	40	/	deg	IF= 20 mA
Peak Wavelength	λp	SUR /	632	/	nm	IF= 20 mA
		SYG /	575	/		
Dominant Wavelength	λd	SUR /	624	/	nm	IF= 20 mA
		SYG /	573	/		
Spectrum Radiation Bandwidth	△λ	SUR /	20	/	nm	IF= 20 mA
		SYG /	20	/		
Forward Voltage	VF	SUR /	2.0	2.4	V	IF= 20 mA
			2.0	2.4		
Reverse Current	IR	/	/	10	μA	VR= 5 V



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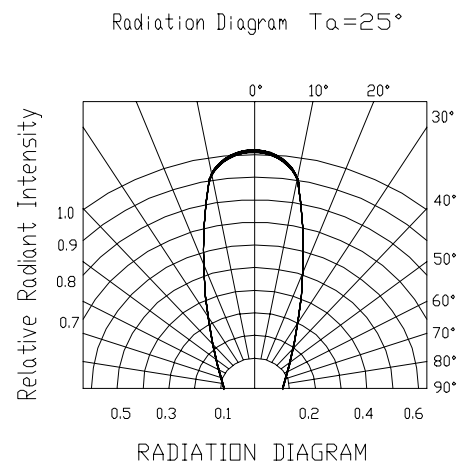
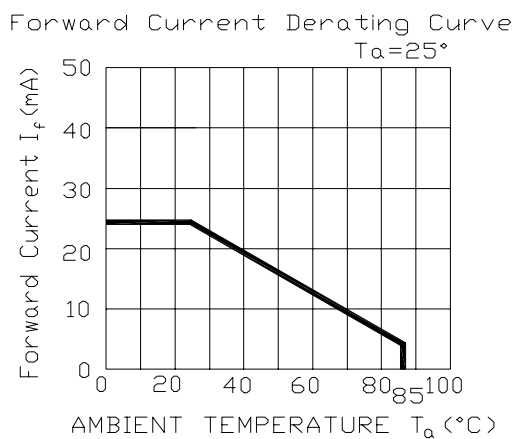
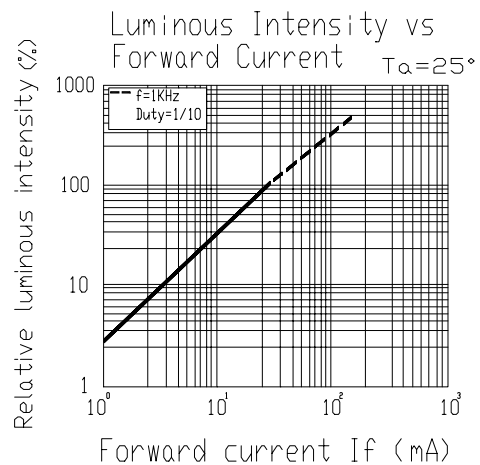
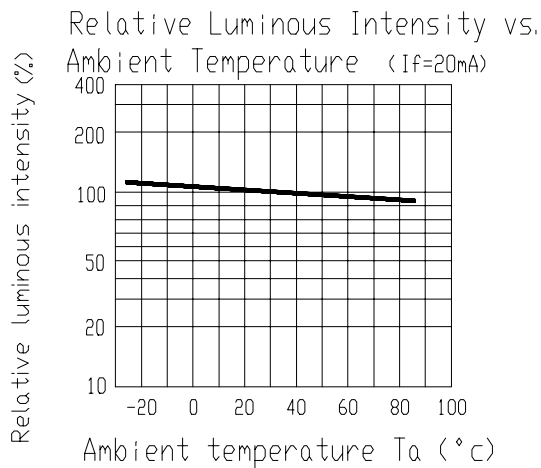
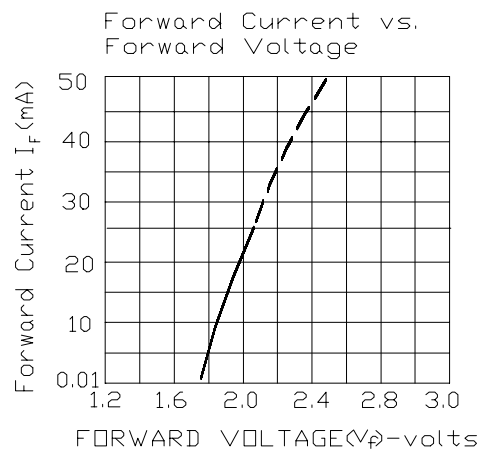
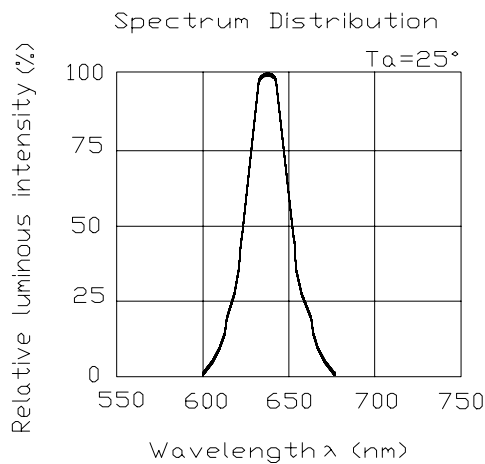
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PART NO : 336SURSYGW/S530-A2 ECN : Page: 3/5

■ Typical Electro-Optical Characteristic Curves

SUR





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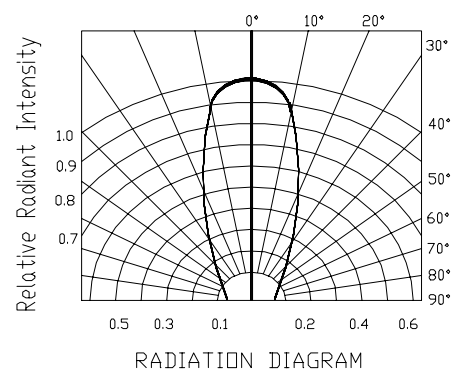
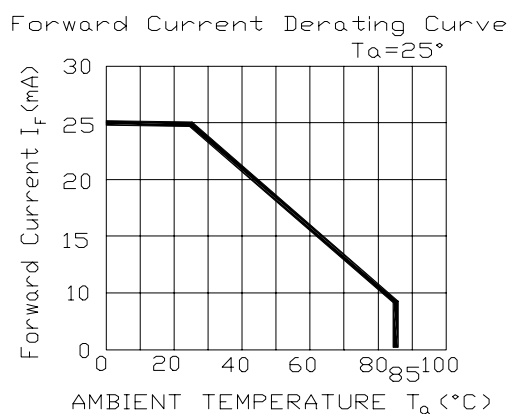
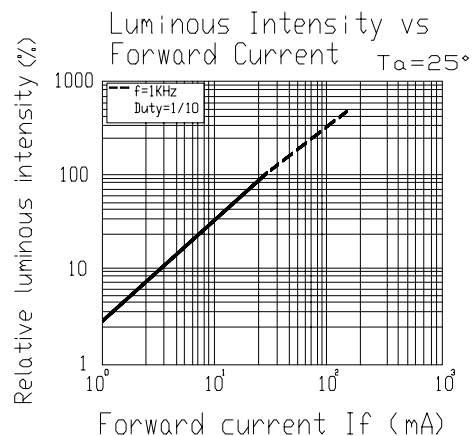
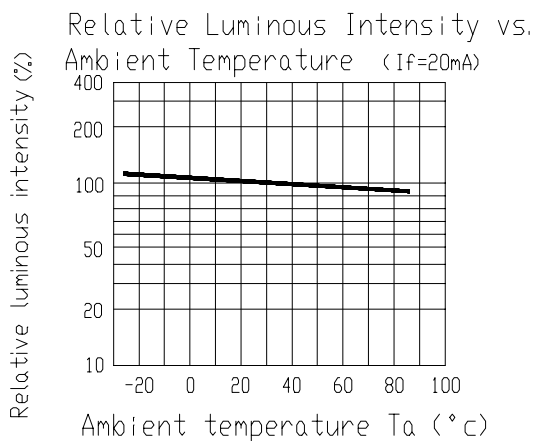
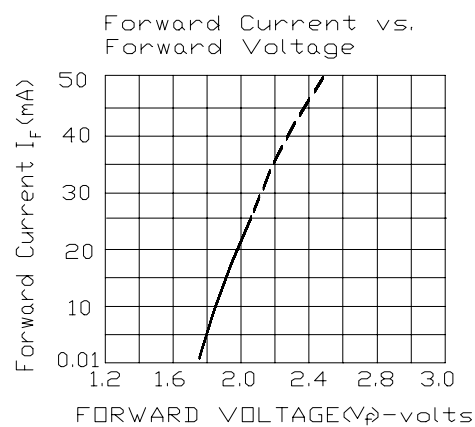
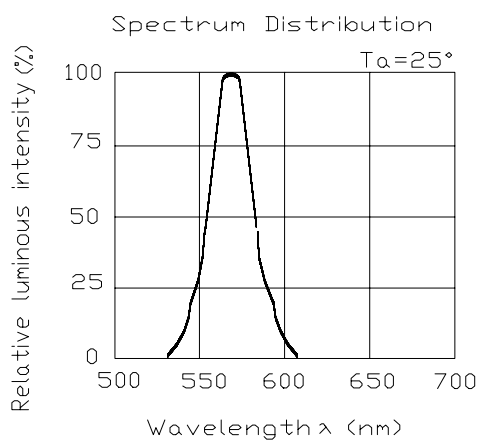
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SYG





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PART NO : 336SURSYGW/S530-A2 ECN : Page: 5/5

■ Reliability test item and condition

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85°C 30min § 5 min L : -55°C 30min	50 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min § 10 sec L : -10°C 5min	50 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -55°C	1000 HRS	76 PCS	0/1
6	DC Operating Life	IF = 20 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 PCS	0/1