



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-052-064 REV: 1

2.0*5.0mm Multi-Color Rectangle Type LED Lamps

MODEL NO : 529-1USRSYGW/S530-E1 ECN : Page: 1/5

■ Features :

- Two chips are matched for uniform light output, wide viewing angle
- Long life-solid state reliability
- IC compatible/Low power consumption

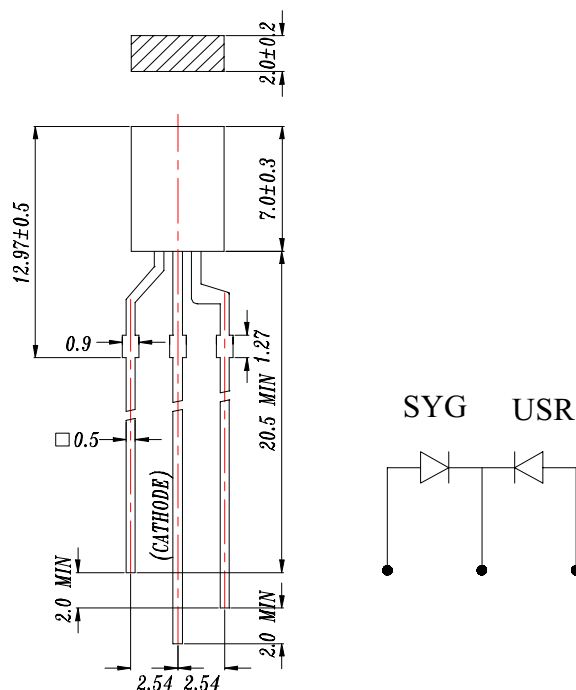
■ Descriptions :

- The 529-1 LED lamp contain two integral chips and is available as both bicolor and bipolar types.
- The Super Red Light and Super Yellow Green light is emitted by diodes of AlGaInP and AlGaInP respectively.

■ Applications :

- TV set
- Monitor
- Telephone
- Computer

■ Package Dimensions:



■ Notes :

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

PART NO	Chip		Lens Color
	Material	Emitted Color	
529-1USRSYGW/S530-E1	AlGaInP	Super Red	White Diffused
	AlGaInP	Super Yellow Green	

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■ Absolute Maximum Ratings at Ta = 25℃

Parameter	Symbol	Rating	Unit
Forward Current	IF	USR 50	mA
		SYG/S530 25	
Operating Temperature	Topr	-40 to +85	℃
Storage Temperature	Tstg	-40 to +100	℃
Soldering Temperature	Tsol	260 ± 5	℃
Electrostatic Discharge	ESD	USR 2000	V
		SYG/S530 2000	
Power Dissipation	Pd	USR 120	mW
		SYG/S530 60	
Peak Forward Current (Duty 1/10 @ 1KHz)	IF(Peak)	USR 200	mA
		SYG/S530 160	
Reverse Voltage	VR	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	Min	Typ	Max	Unit	Condition
Luminous Intensity	Iv USR	6.3	10	/	mcd	IF= 20 mA
	SYG/S530	4.0	6.3	/		
Viewing Angle	2 θ 1/2	/	180	/	deg	IF= 20 mA
Peak Wavelength	λ p USR	/	639	/	nm	IF= 20 mA
	SYG/S530	/	575	/		
Dominant Wavelength	λ d USR	/	631	/	nm	IF= 20 mA
	SYG/S530	/	573	/		
Spectrum Radiation Bandwidth	△ λ USR	/	20	/	nm	IF= 20 mA
	SYG/S530	/	20	/		
Forward Voltage	VF USR	1.7	2.0	2.4	V	IF= 20 mA
	SYG/S530	1.7	2.0	2.4		
Reverse Current	IR	/	/	10	μ A	VR= 5 V



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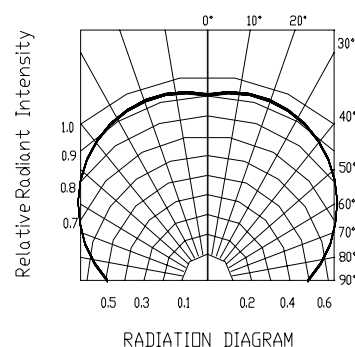
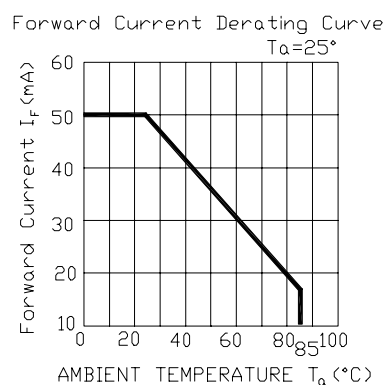
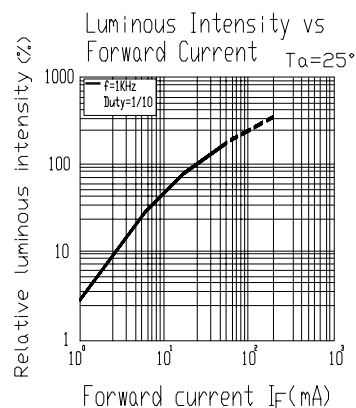
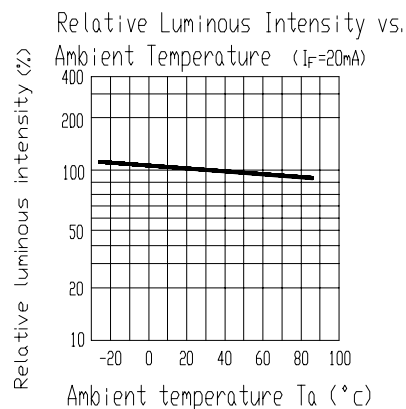
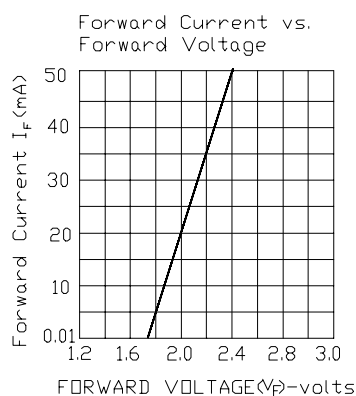
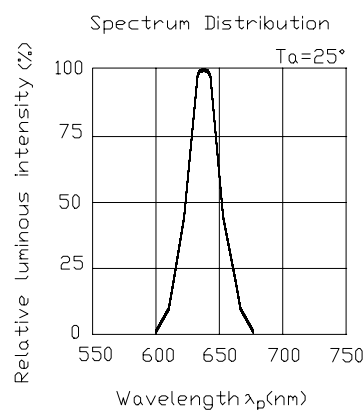
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■ Typical Electro-Optical Characteristic Curves:

USR





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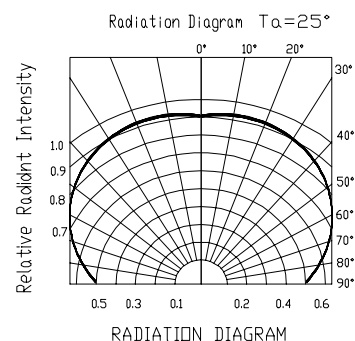
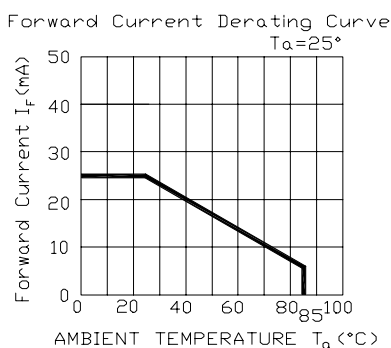
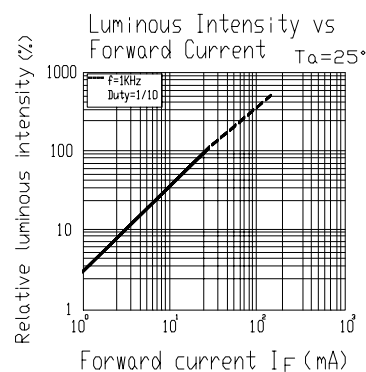
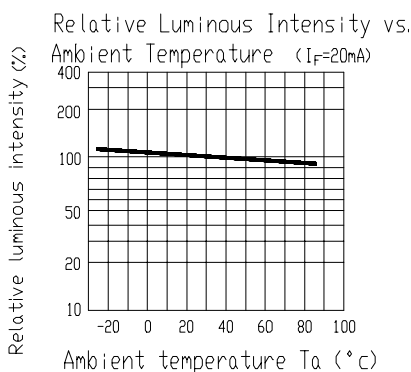
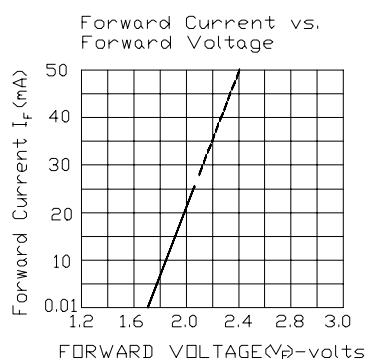
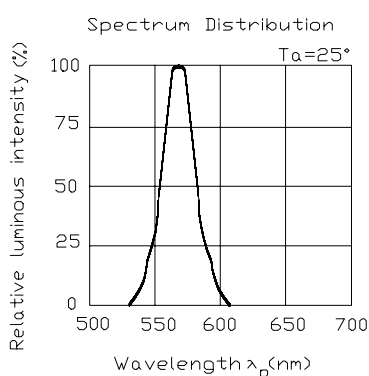
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■ Typical Electro-Optical Characteristic Curves:

SYG





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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	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