



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-052-082 REV.: 1

2.0*5.0mm Multi-Color Rectangle Type LED Lamps

PART NO. : 526SDRSYGW/S530-A2 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

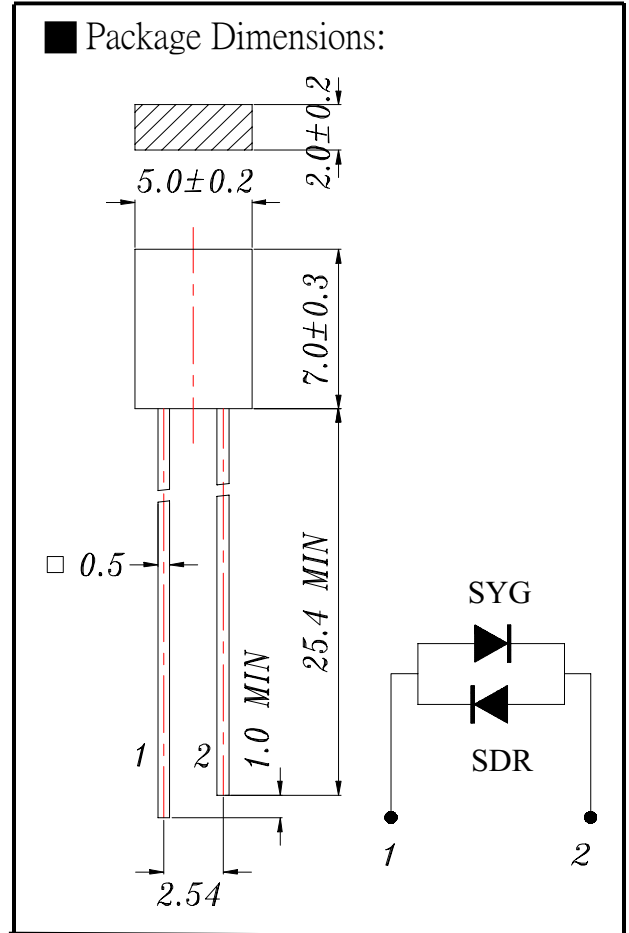
■ Descriptions :

The 526 LED lamp contain two integral chips and is available as both bicolor and bipolar types.

- The Super Deep-Red and Super Yellow Green light is emitted by diodes of AlGaInP and AlGaInP respectively.
- Type of bipolar lamps are both white and Color Diffused while the bicolor are white diffused .

■ Applications :

- TV set
- Monitor
- Telephone
- Computer



■ Notes :

1. All dimensions are in millimeters.
2. An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.
3. Tolerances unless Dimension ± 0.25 mm.

PART NO.	Chip		Lens Color
	Material	Emitted Color	
526SDRSYGW/S530-A2	AlGaInP	Super Deep-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	SDR/S530 25	mA
		SYG/S530 25	
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Electrostatic Discharge	ESD	SDR/S530 2000	V
		SYG/S530 2000	
Power Dissipation	Pd	SDR/S530 60	mW
		SYG/S530 60	
Peak Forward Current (Duty 1/10 @ 1KHz)	IF(Peak)	SDR/S530 160	mA
		SYG/S530 160	
Reverse Voltage	VR	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv SDR/S530	2.5	5.0	/	mcd	IF= 20 mA
	SYG/S530	1.6	3.2	/		
Viewing Angle	2θ 1/2	/	180	/	deg	IF= 20 mA
Peak Wavelength	λp SDR/S530	/	650	/	nm	IF= 20 mA
	SYG/S530	/	575	/		
Dominant Wavelength	λd SDR/S530	/	639	/	nm	IF= 20 mA
	SYG/S530	/	573	/		
Spectrum Radiation Bandwidth	△λ SDR/S530	/	20	/	nm	IF= 20 mA
	SYG/S530	/	20	/		
Forward Voltage	VF SDR/S530	/	2.0	2.4	V	IF= 20 mA
	SYG/S530	/	2.0	2.4		
Reverse Current	IR	/	/	10	μA	VR= 5 V



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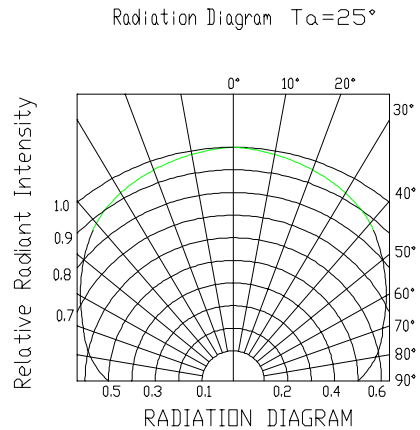
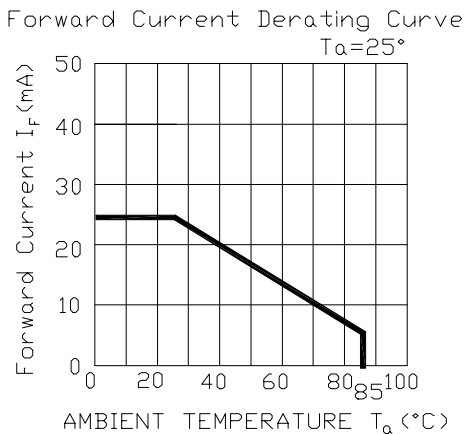
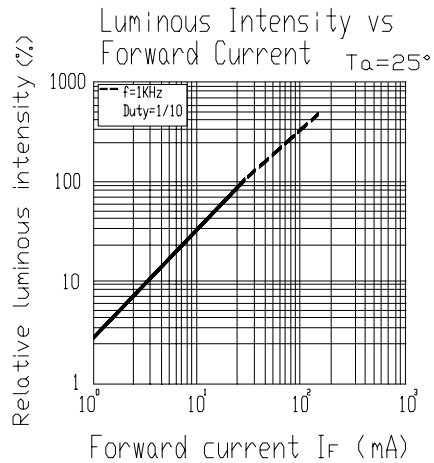
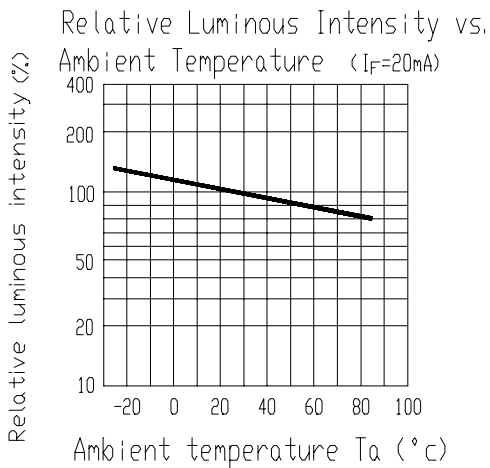
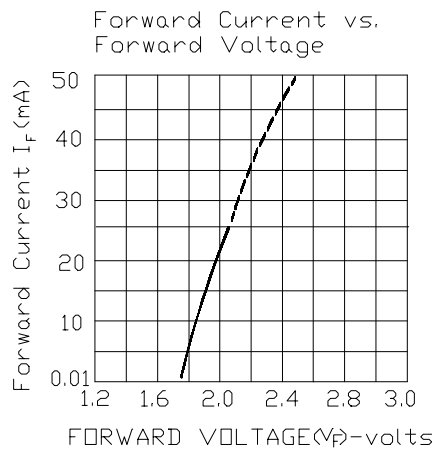
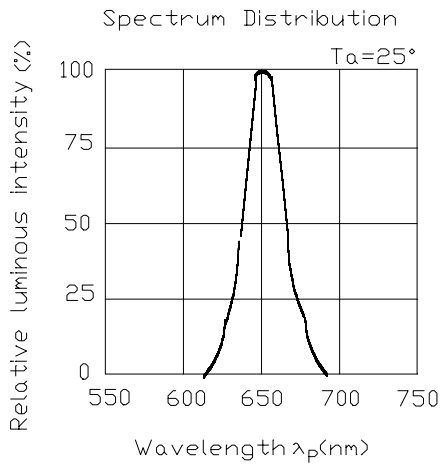
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Typical Electro-Optical Characteristic Curves:

(SDR)





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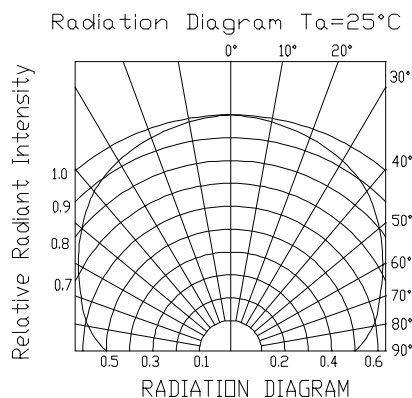
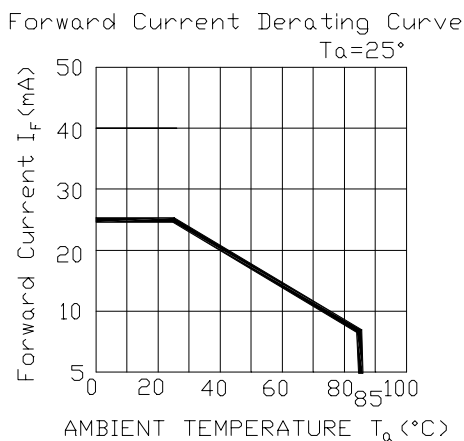
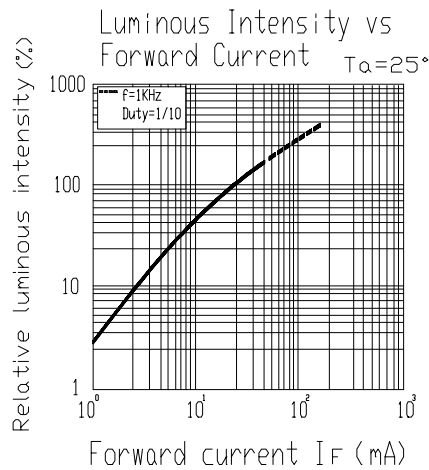
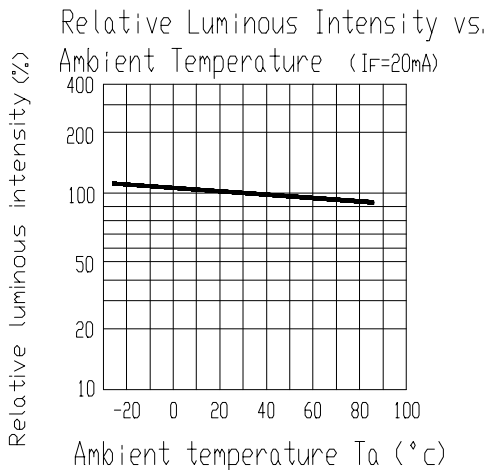
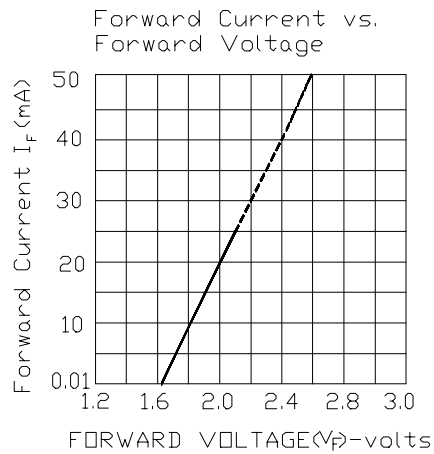
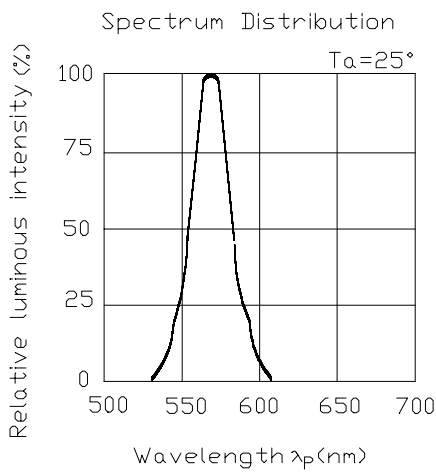
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■ Typical Electro-Optical Characteristic Curves:

(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	TEMP : 25°C IF = 20 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 PCS	0/1