



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-020-344 REV.: 2

3.0mm Multi-Color Round Type LED Lamps

PART NO. : 209SURSYGW/S530-A2

ECN : Page: 2/5

■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	IF	SUR/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
Power Dissipation	Pd	SUR/S530 60	mW
		SYG/S530 60	
Peak Forward Current (Duty 1/10 @ 1KHz)	IF(Peak)	SUR/S530 160	mA
		SYG/S530 160	
Reverse Voltage	VR	5	V

■ Electronic Optical Characteristics :

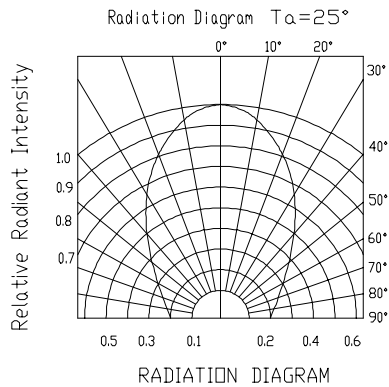
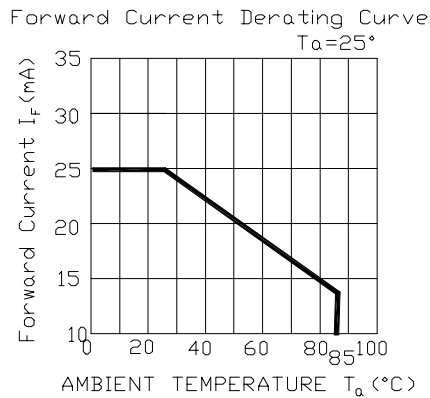
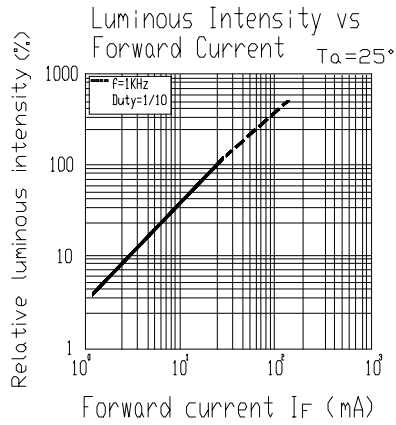
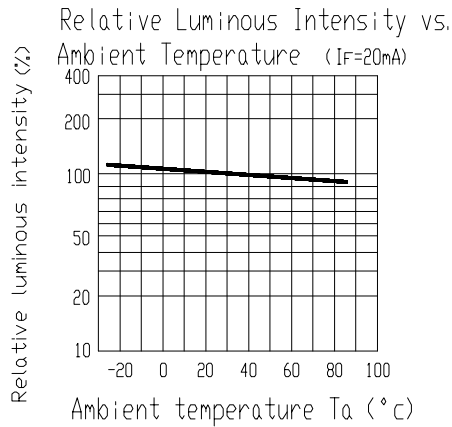
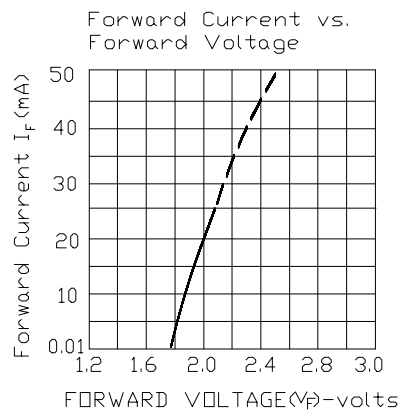
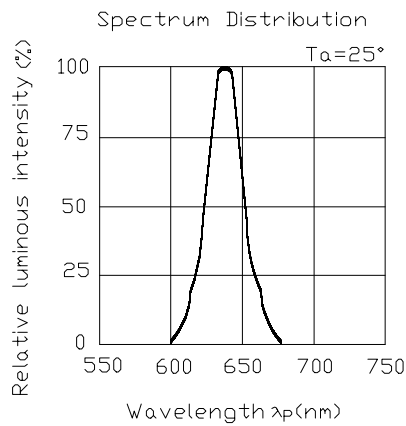
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	SUR/S530	16.00	40.00	/	mcd IF= 20 mA
		SYG/S530	6.30	20.00	/	
Viewing Angle	2θ 1/2	/	80	/	deg	IF= 20 mA
Peak Wavelength	λ p	SUR/S530	/	632	/	nm IF= 20 mA
		SYG/S530	/	575	/	
Dominant Wavelength	λ d	SUR/S530	/	624	/	nm IF= 20 mA
		SYG/S530	/	573	/	
Spectrum Radiation Bandwidth	Δ λ	SUR/S530	/	20	/	nm IF= 20 mA
		SYG/S530	/	20	/	
Forward Voltage	VF	SUR/S530	/	2.0	2.4	V IF= 20 mA
		SYG/S530	/	2.0	2.4	
Reverse Current	IR	/	/	10	μ A	VR= 5 V



3.0mm Multi-Color Round Type LED Lamps

■ Typical Electro-Optical Characteristic Curves:

(SUR)





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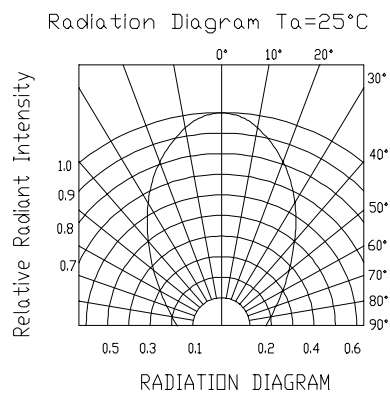
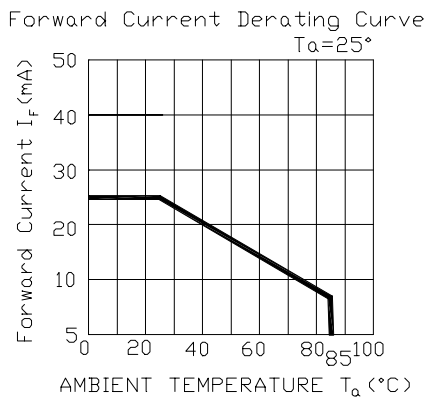
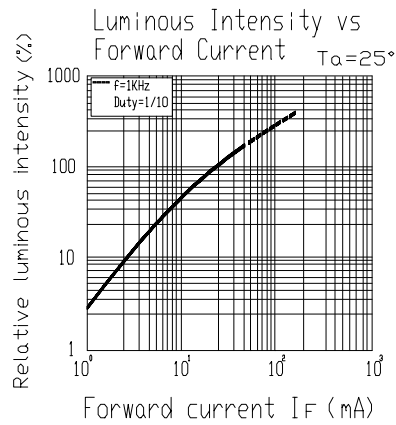
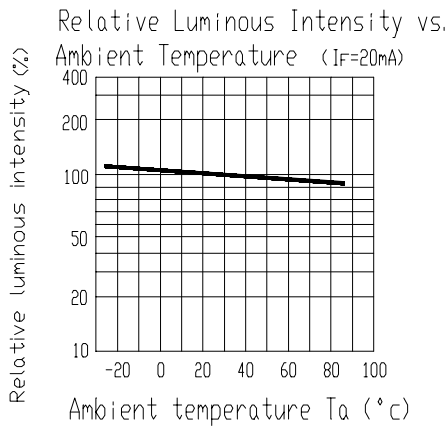
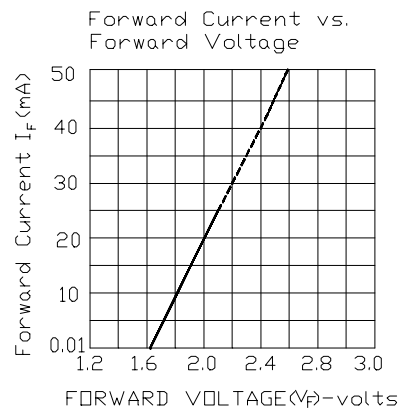
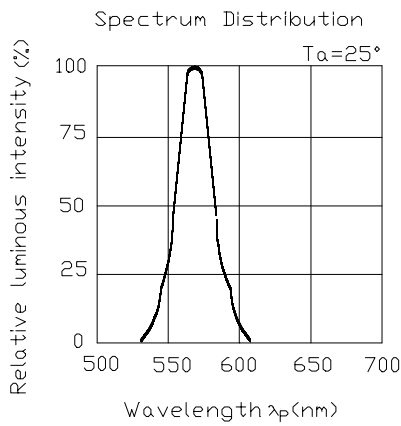
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PART NO. : 209SURSYGW/S530-A2 ECN : _____ Page: 4/5

Typical Electro-Optical Characteristic Curves:

< SYG >





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Device Number : CDLE-020-344 REV.: 2

3.0mm Multi-Color Round Type LED Lamps

PART NO. : 209SURSYGW/S530-A2 ECN : Page: 5/5

■ 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