





# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-420-006 REV: 1.0

3.0mm Bi-Color (Multi-Color)with Common Cathode(0.1" Lead pitch) LEDs, T-1

PART NO. : 4209-3UYSYGW/S530-A2/D57 ECN :                      Page: 2/5

## ■ Absolute Maximum Ratings at Ta = 25°C

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

## ■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv UY	25	40	/	mcd	IF= 20 mA
		SYG 25	40	/		
Viewing Angle	2θ 1/2	/	75	/	deg	IF= 20 mA
Peak Wavelength	λp UY	/	591	/	nm	IF= 20 mA
		SYG /	575	/		
Dominant Wavelength	λd UY	/	589	/	nm	IF= 20 mA
		SYG /	573	/		
Spectrum Radiation Bandwidth	Δλ UY	/	15	/	nm	IF= 20 mA
		SYG /	20	/		
Forward Voltage	VF UY	/	2.0	2.4	V	IF= 20 mA
		SYG /	2.0	2.4		
Reverse Current	IR	/	/	10	μA	VR= 5 V



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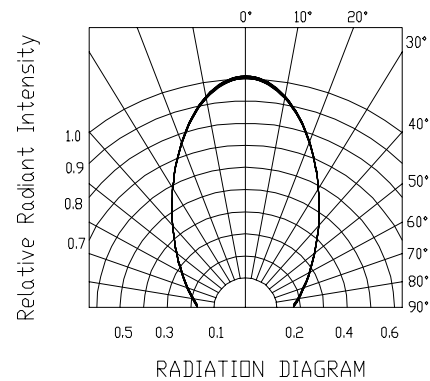
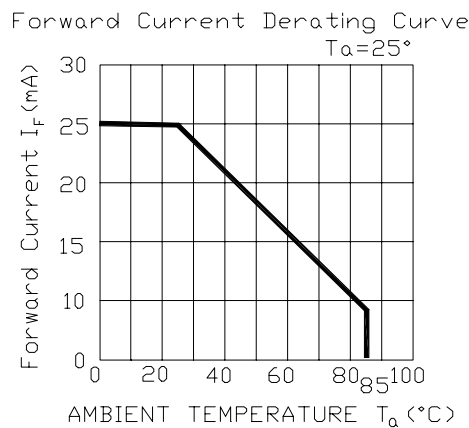
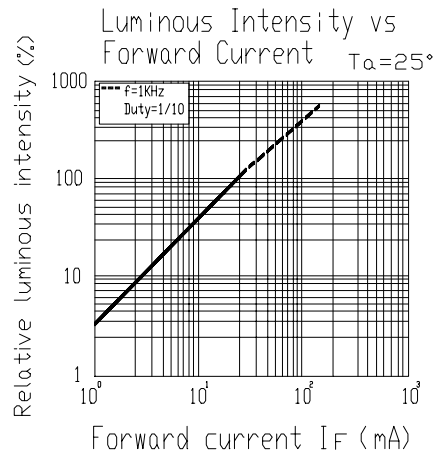
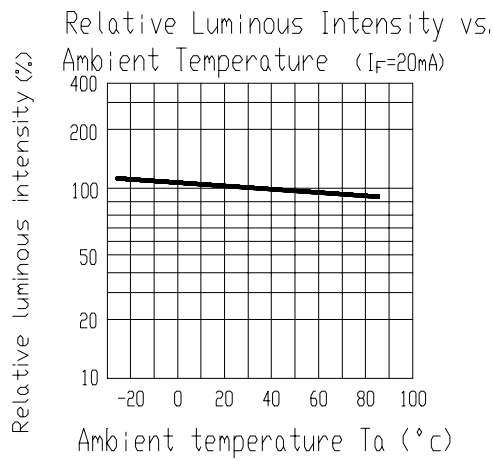
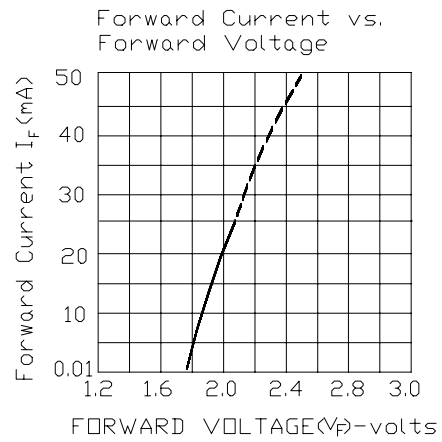
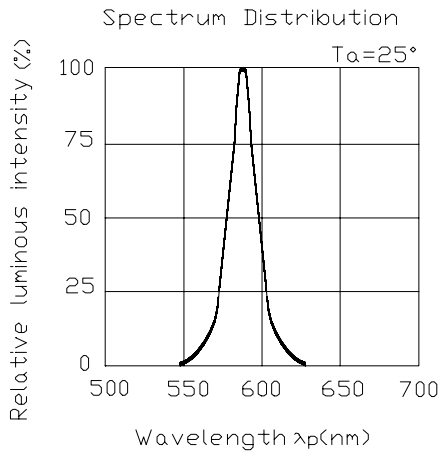
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## ■ Typical Electro-Optical Characteristic Curves:

UY





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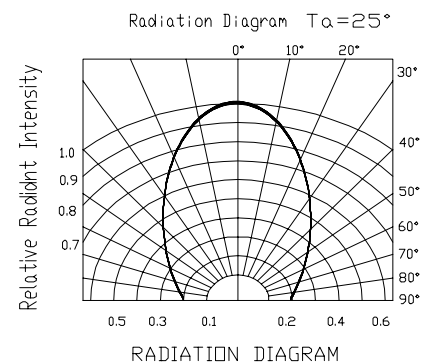
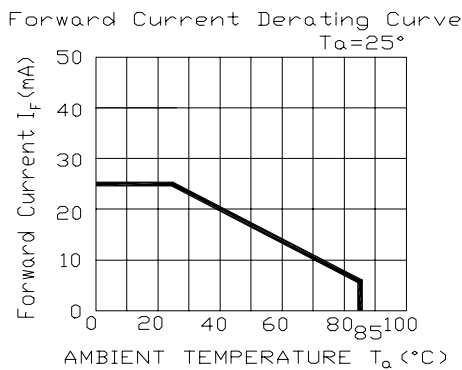
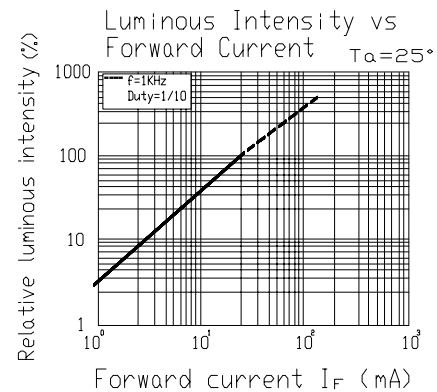
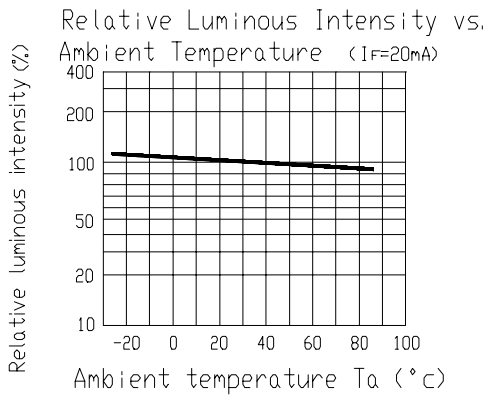
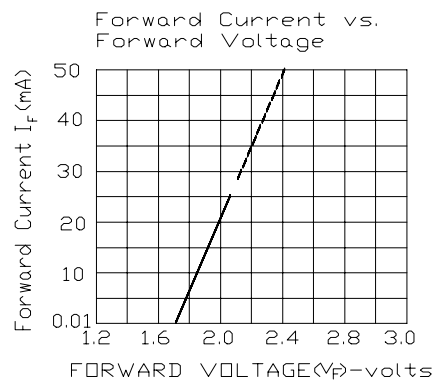
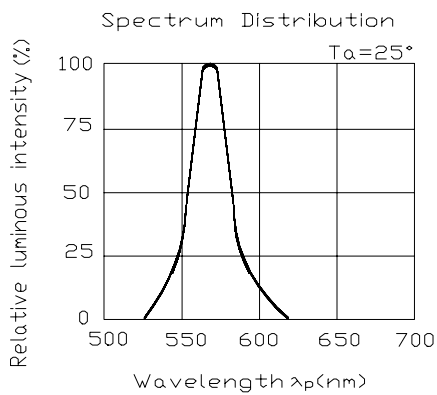
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## ■ Typical Electro-Optical Characteristic Curves:

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=20mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 PCS	0/1