



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-051-085 REV: 1.0

2.0\*5.0mm Bi-Color (Multi-Color) Rectangulr with Flange LEDs

PART NO : 519EGW/R2 ECN :            Page: 1/5

## ■ Features :

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

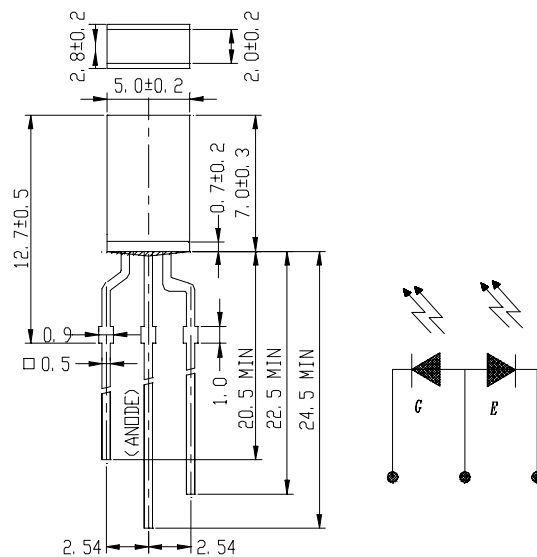
## ■ Descriptions :

- The 519-1 LED lamps contain two integral chips and is available as both bicolor and bipolsr types.
- The Orange and Green Light are emitted by diodes of GaAsP/GaP and GaP 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.
- 3.Tolerances unless dimension ±0.25mm

PART NO	Chip		Lens Color
	Material	Emitted Color	
519EGW/R2	GaAsP/GaP	Orange	White Diffused
	GaP	Green	

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

Parameter	Symbol	Rating	Unit
Forward Current	IF	E 30	mA
		G 30	
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Power Dissipation	Pd	E 100	mW
		G 100	
Peak Forward Current (Duty 1/10 @ 1KHz)	IF(Peak)	E 160	mA
		G 160	
Reverse Voltage	VR	5	V

## ■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	E 0.25	0.63	/	mcd	IF= 10 mA
		G 0.25	0.63	/		
Viewing Angle	2 θ 1/2	/	150	/	deg	IF= 20 mA
Peak Wavelength	λ p	E /	635	/	nm	IF= 20 mA
		G /	565	/		
Dominant Wavelength	λ d	E /	625	/	nm	IF= 20 mA
		G /	570	/		
Spectrum Radiation Bandwidth	△ λ	E /	45	/	nm	IF= 20 mA
		G /	30	/		
Forward Voltage	VF	E 1.7	2.0	2.4	V	IF= 20 mA
		G 1.7	2.1	2.4		
Reverse Current	IR	/	/	10	μ A	VR= 5 V



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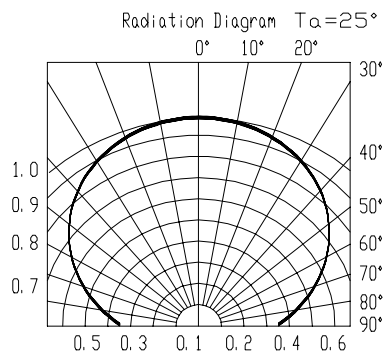
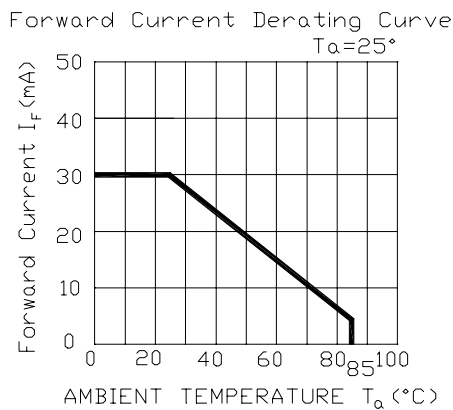
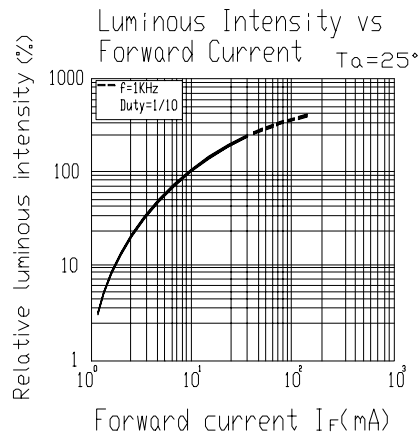
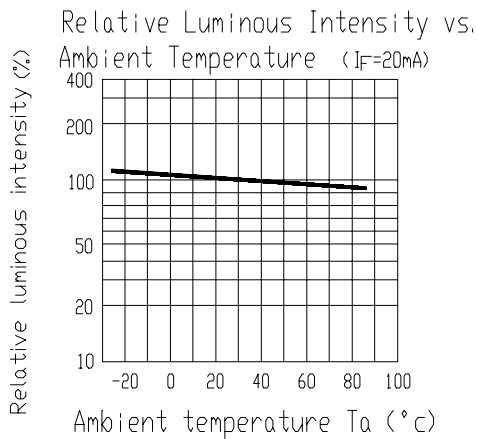
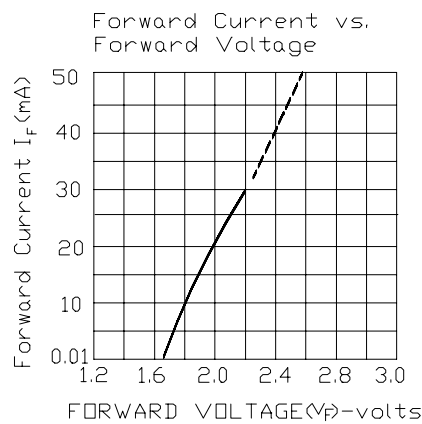
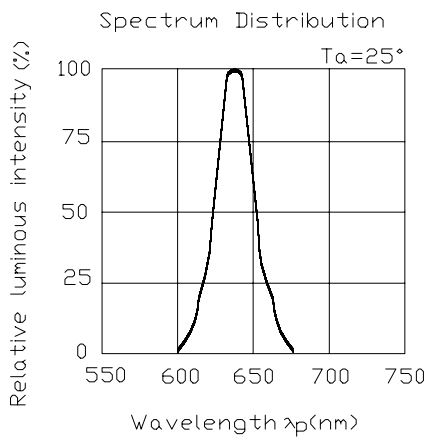
PART NO : 519EGW/R2

ECN :

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## ■ Typical Electro-Optical Characteristic Curves

E





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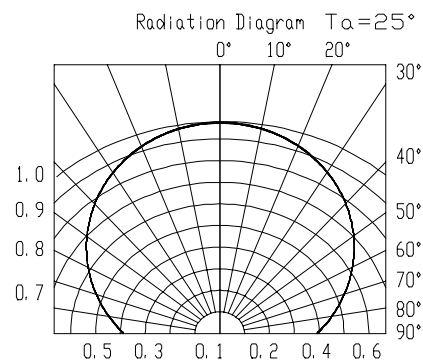
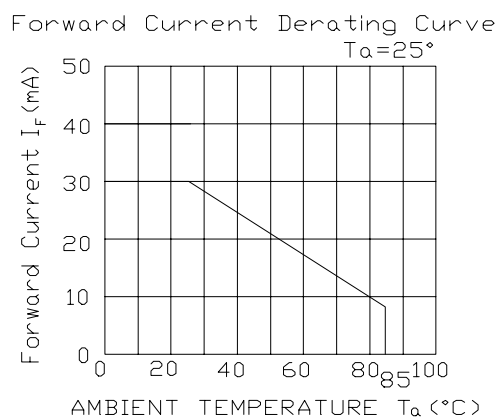
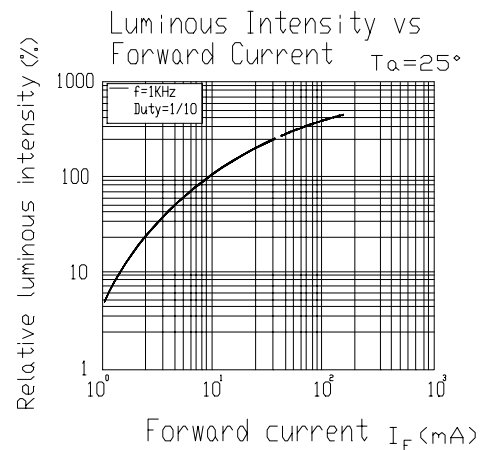
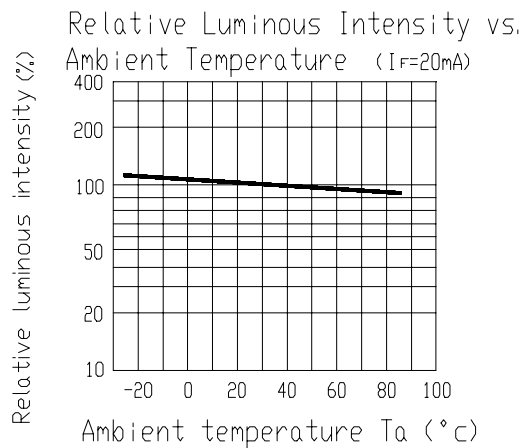
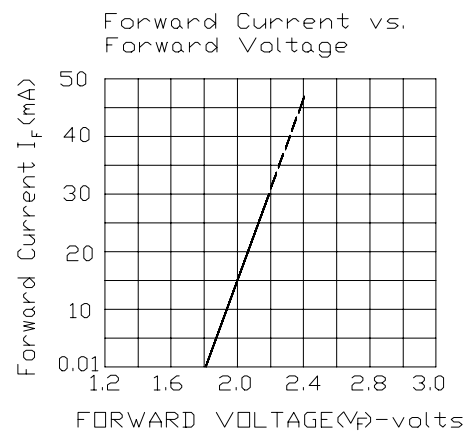
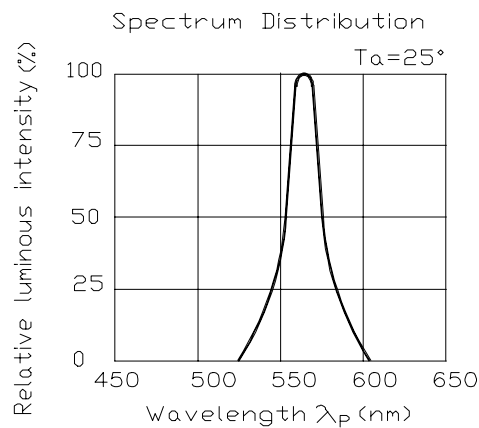
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## ■ Typical Electro-Optical Characteristic Curves

G





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