

Technical Data Sheet

2.0*5.0mm Multi-Color Rectangle Type LED Lamps

519-1EVGW

■ Features :

- Two chips are matched for uniform light output, wide viewing angle
- Long life-solid state reliability
- I.C. compatible/Low power consumption
- Pb free



■ Descriptions :

- The 519-1 LED lamps contain two integral chips and is available as both bicolor and bipolar types.
- The Orange and Green light is emitted by diodes of GaAsP/GaP and GaP respectively.
- Type of bipolar lamps are both White Diffused and Color Diffused while the bicolor are White Diffused.

■ Applications :

- TV set
- Monitor
- Telephone
- Computer

PART NO.	Chip		Lens Color
	Material	Emitted Color	
519-1EVGW	GaAsP/GaP	Orange	White Diffused
	GaP	Green	

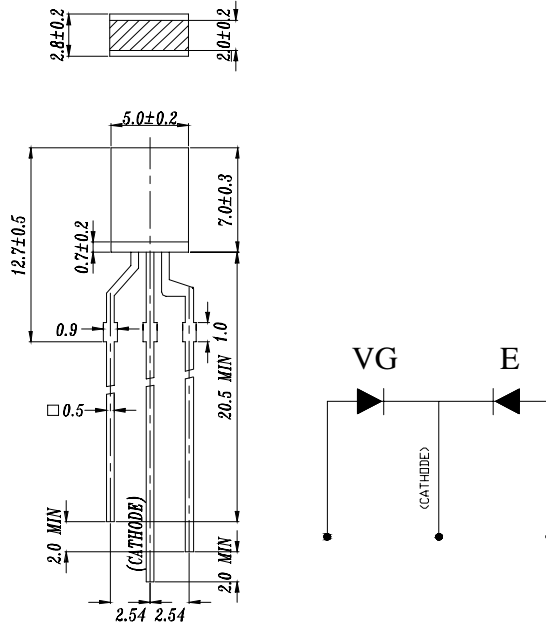


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Package Dimensions



Notes: 1.All dimensions are in millimetres

- 2. An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.
- 3. Tolerances unless Dimension ± 0.25 mm.

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	IF	E 30	mA
		VG 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
		VG 100	
Peak Forward Current	IF(Peak)	E 160	mA
		VG 160	
Reverse Voltage	VR	5	V

Note: *1:IFP Conditions --Pulse Width \leq 1msec and Duty \leq 1/10.

*2:Soldering time \leq 5 seconds.



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Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv E	1.6	2.5	/	mcd	IF= 10 mA
	VG	2.5	4.0	/		
Viewing Angle	2θ 1/2	/	150	/	deg	IF= 20 mA
Peak Wavelength	λp E	/	635	/	nm	IF= 20 mA
	VG	/	570	/		
Dominant Wavelength	λd E	/	625	/	nm	IF= 20 mA
	VG	/	571	/		
Spectrum Radiation Bandwidth	Δλ E	/	45	/	nm	IF= 20 mA
	VG	/	30	/		
Forward Voltage	VF E	1.7	2.0	2.4	V	IF= 20 mA
	VG	1.7	2.1	2.4		
Reverse Current	IR	/	/	10	μA	VR= 5 V



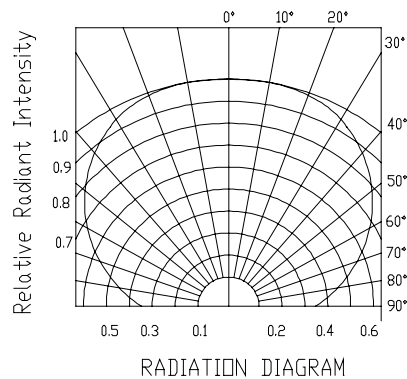
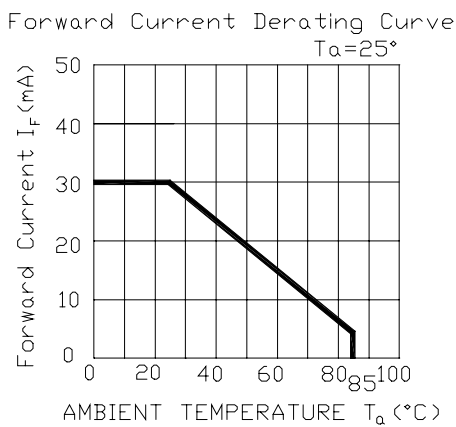
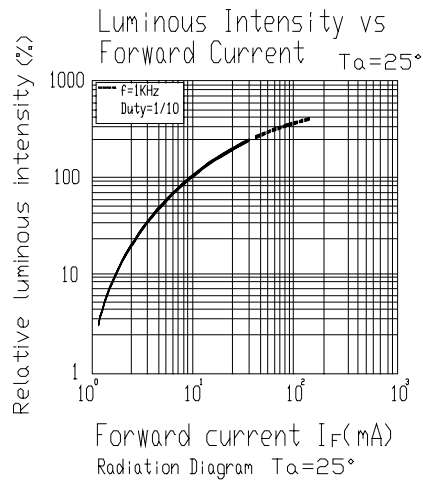
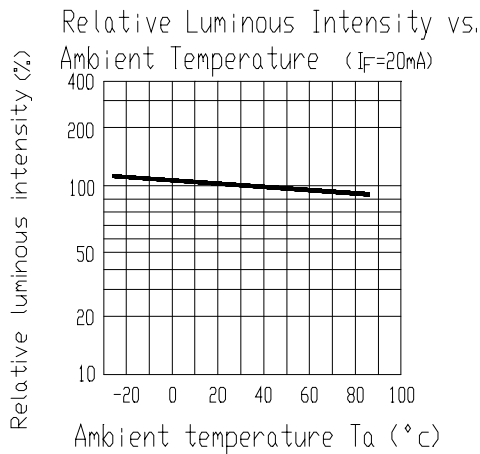
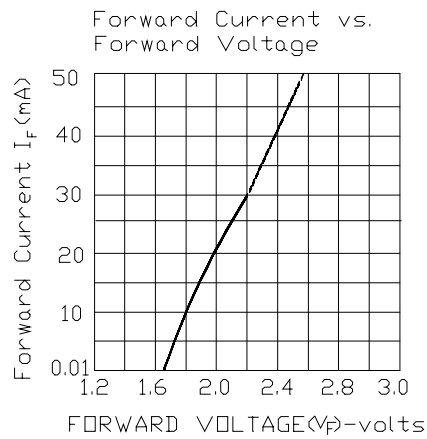
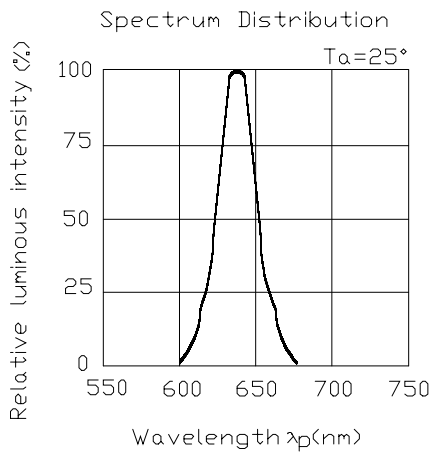
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Typical Electro-Optical Characteristic Curves:

(E)



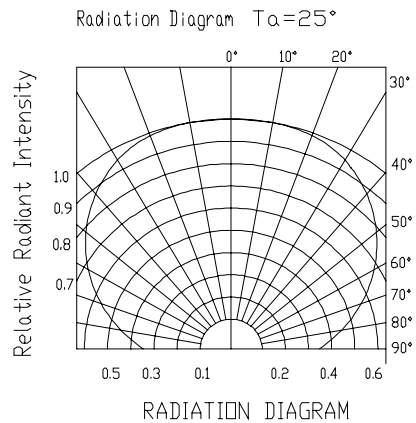
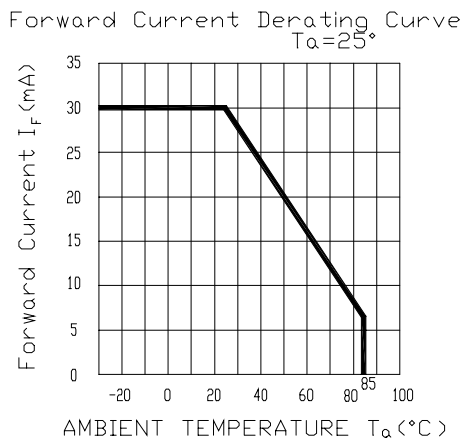
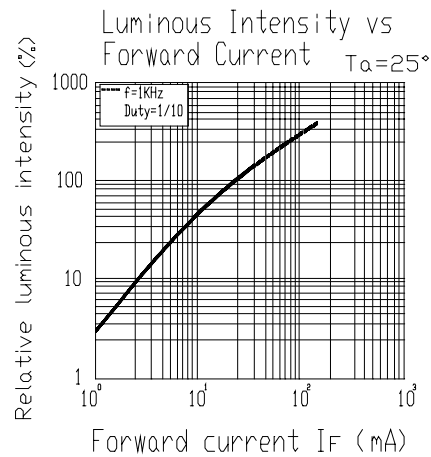
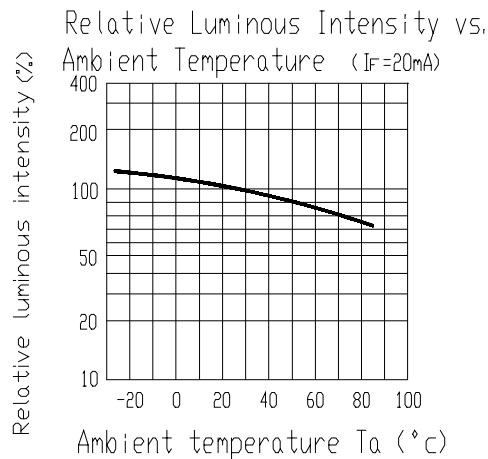
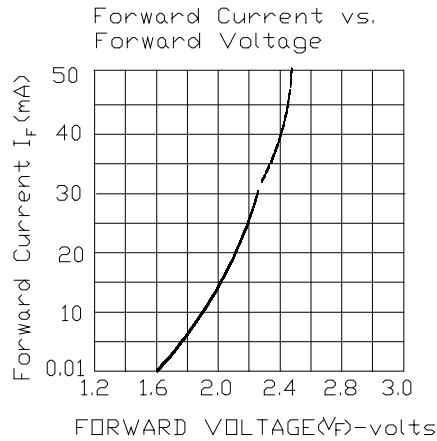
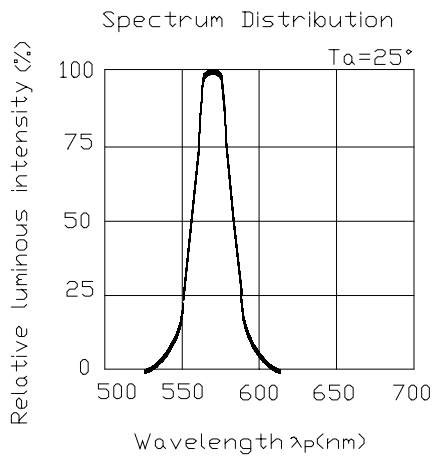


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Typical Electro-Optical Characteristic Curves:





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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	10 SEC	76 PCS	0/1
2	Temperature Cycle	H : +100°C 15min ∫ 5 min L : -40°C 15min	300 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min ∫ 10 sec L : -10°C 5min	300 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -40°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



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Packing Quantity Specification

1.500PCS/1Bag , 4Bags/1Box

2.10Boxes/1Carton

Label Form Specification

EVERLIGHT

CPN:

P/N:



519-1EVGW

QTY:



CAT:

HUE:

REF:

LOT NO: EL



MADE IN TAIWAN

CPN: Customer's Production Number

P/N : Production Number

QTY: Packing Quantity

CAT: Ranks

HUE: Peak Wavelength

REF: Reference

LOT No: Lot Number

MADE IN TAIWAN: Production Place

Notes

1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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