



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-051-059 REV: 1

2.0*5.0mm Rectangle Type LED Lamps

MODEL NO : 511GD ECN : _____ Page: 1/4

■ Features :

- Choice of various viewing angles
- Available on tape and reel
- Reliable and robust

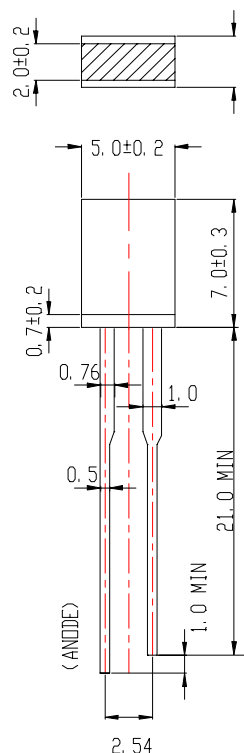
■ Descriptions :

- The series is specially designed for applications requiring higher brightness
- The LED lamp are available with different colors, intensities, epoxy colors, etc.

■ 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.

PART NO	Chip		Lens Color
	Material	Emitted Color	
511GD	GaP	Green	Green Diffused

OFFICE : NO. 25,Lane 76,Sec.3, Chung Yang Rd., Tucheng 236, Taipei, Taiwan, R.O.C.

TEL : 886-2-2267-2000,2267-9936

FAX : 886-2-2267-6244,22676189,22676306

<http://www.everlight.com>



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-051-059 REV: 1

2.0*5.0mm Rectangle Type LED Lamps

MODEL NO : 511GD ECN : Page: 2/4

■ Absolute Maximum Ratings at Ta = 25°C

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

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	0.4	1.0	/	mcd	If= 10 mA
Viewing Angle	2 θ 1/2	/	180	/	deg	If= 20 mA
Peak Wavelength	λ p	/	565	/	nm	If= 20 mA
Dominant Wavelength	λ d	/	570	/	nm	If= 20 mA
Spectrum Radiation Bandwidth	△ λ	/	30	/	nm	If= 20 mA
Forward Voltage	Vf	1.7	2.1	2.4	V	If= 20 mA
Reverse Current	Ir	/	/	10	μ A	Vr= 5 V



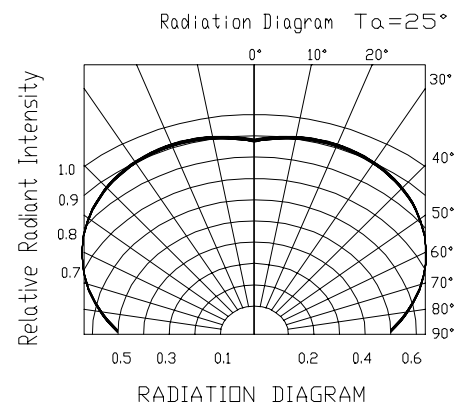
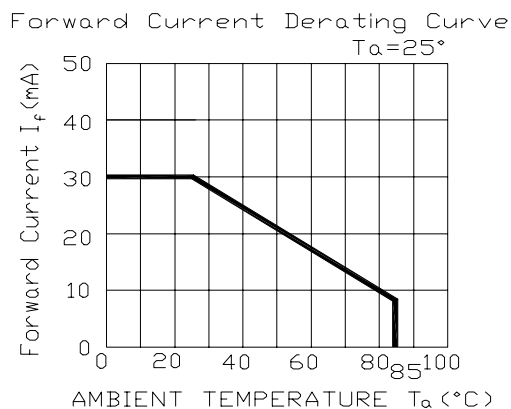
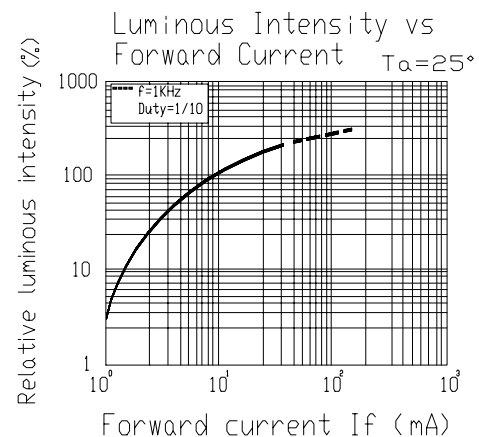
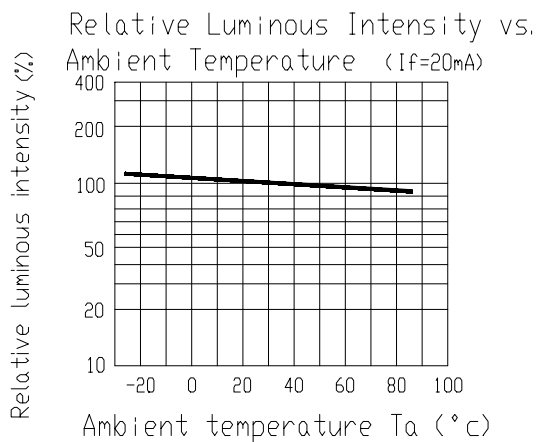
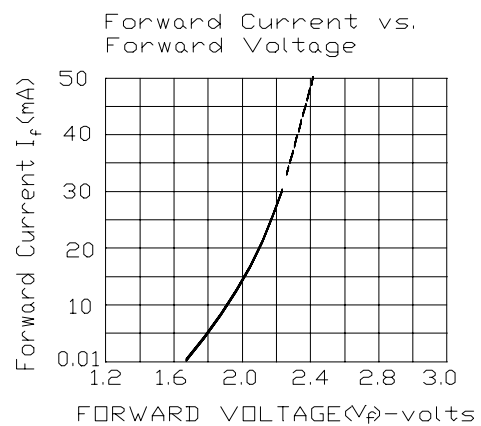
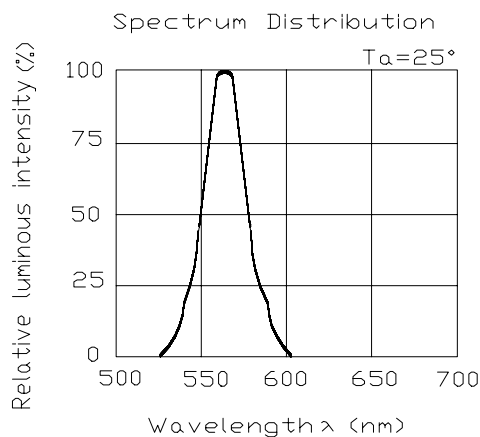
EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-051-059 REV: 1

2.0*5.0mm Rectangle Type LED Lamps

MODEL NO : 511GD ECN : Page: 3/4

■ Typical Electro-Optical Characteristic Curves:





EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-051-059 REV: 1

2.0*5.0mm Rectangle Type LED Lamps

MODEL NO : 511GD ECN : Page: 4/4

■ 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 CYCLE	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min § 10 sec L : -10°C 5min	50 CYCLE	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 = 20 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C /85% RH	1000 HRS	76 PCS	0/1