

## 2.0\*5.0mm Rectangle Type LED Lamps

PART NO. : 514VGD ECN : \_\_\_\_\_ Page: 1/4**■ Features :**

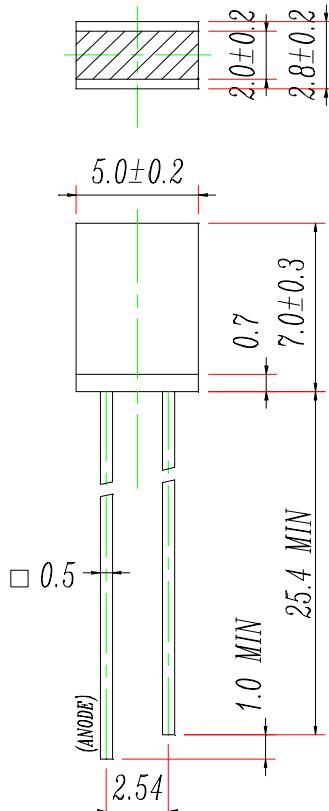
- Choice of various viewing angles
- Available on tape and reel.
- Reliable and robust

**■ Descriptions :**

- The series is specially designed for applications requiring higher brightness
- The led lamps 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.
3. Tolerances unless Dimension  $\pm 0.25\text{mm}$ .

PART NO.	Chip		Lens Color
	Material	Emitted Color	
514VGD	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>

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## ■ 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	1.60	5.00	/	mcd	IF= 20 mA
Viewing Angle	2θ 1/2	/	180	/	deg	IF= 20 mA
Peak Wavelength	λ p	/	570	/	nm	IF= 20 mA
Dominant Wavelength	λ d	/	571	/	nm	IF= 20 mA
Spectrum Radiation Bandwidth	△λ	/	30	/	nm	IF= 20 mA
Forward Voltage	VF	1.70	2.10	2.40	V	IF= 20 mA
Reverse Current	IR	/	/	10	μA	VR= 5 V



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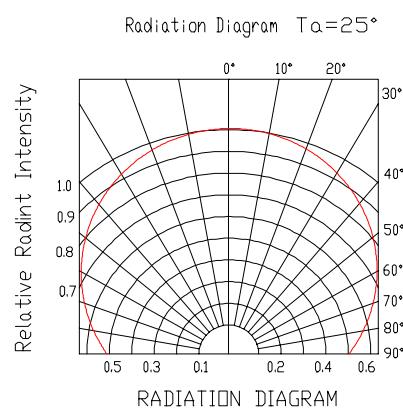
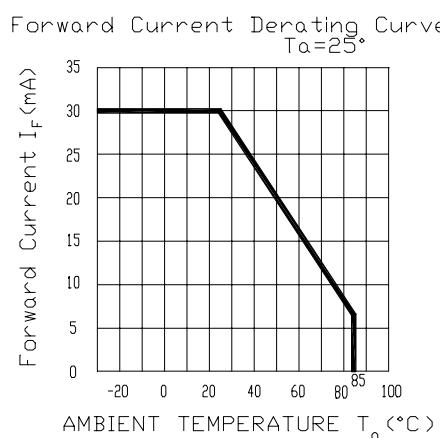
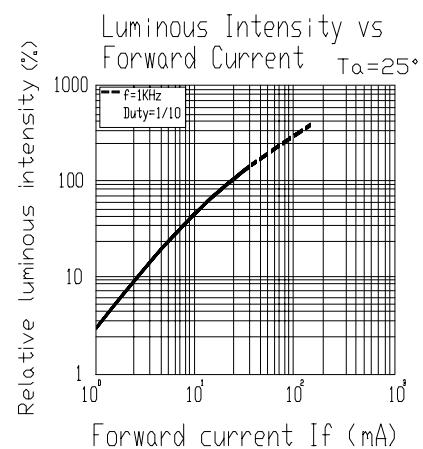
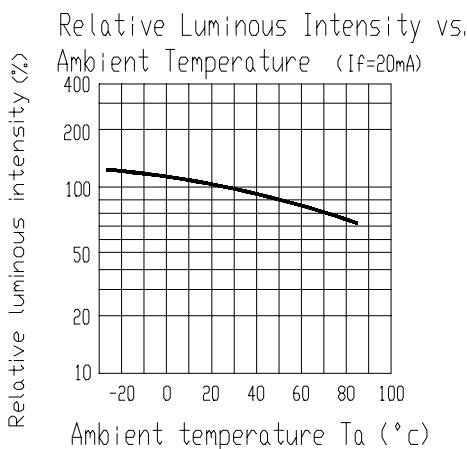
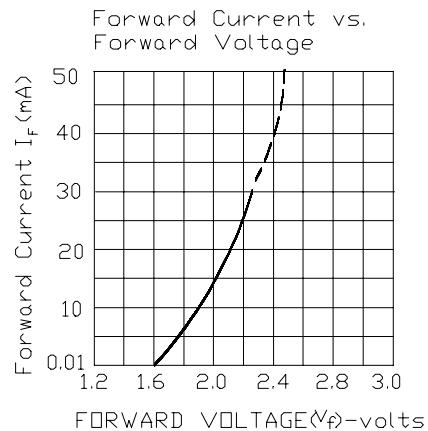
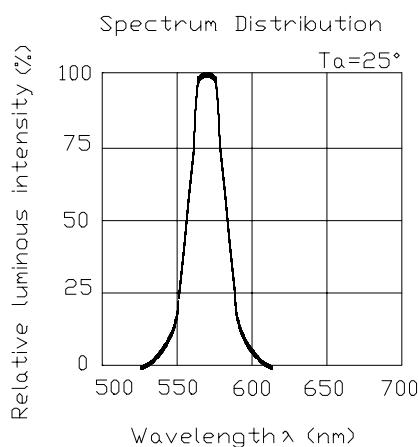
Device Number : CDLE-051-077 REV.: 1

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■ Typical Electro-Optical Characteristic Curves:

( V[G] )





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Device Number : CDLE-051-077 REV.: 1

2.0\*5.0mm Rectangle Type LED Lamps

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