



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-452-020 REV: 1.1

2 X 5 mm Rectangular LEDs

MODEL NO : 4524GD ECN : Page: 1/4

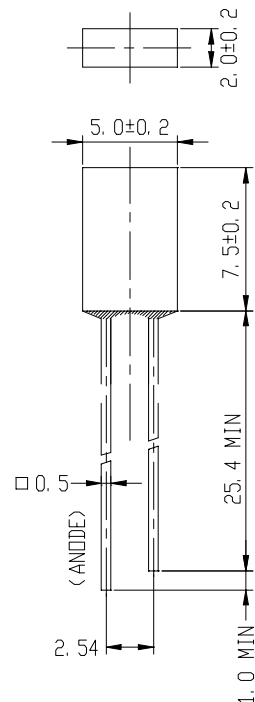
■ Features :

- With flange.
- Low power consumption.
- Excellent uniformity of light emittance.
- I.C compatible.

■ Description :

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

■ Package Dimension:



■ Applications :

- TV Set
- Monitor
- Telephone
- Computer

■ 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	
4524GD	GaP	Green	Green Diffused

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<http://www.everlight.com>



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Device Number : DLE-425-021 REV: 1.1

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■ Absolute Maximum Ratings at T_A = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	I _f	30	mA
Operating Temperature	T _{opr}	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +100	°C
Soldering Temperature	T _{sol}	260 ± 5	°C
Power Dissipation	P _d	100	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	I _f (Peak)	160	mA
Reverse Voltage	V _r	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I _v	1.6	2.5	----	mcd	I _f =10mA
Viewing Angle	2 θ 1/2	----	150	----	deg	I _f =20mA
Peak Wavelength	λ _p	----	565	----	nm	I _f =20mA
Dominant Wavelength	λ _d	----	570	----	nm	I _f =20mA
Spectrum Radiation Bandwidth	△ λ	----	30	----	nm	I _f =20mA
Forward Voltage	V _f	1.7	2.1	2.4	V	I _f =20mA
Reverse Current	I _r	----	----	10	μ A	V _r =5V



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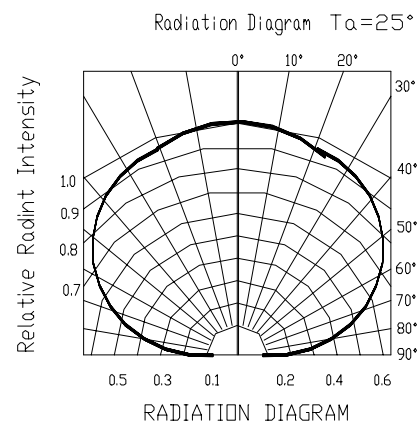
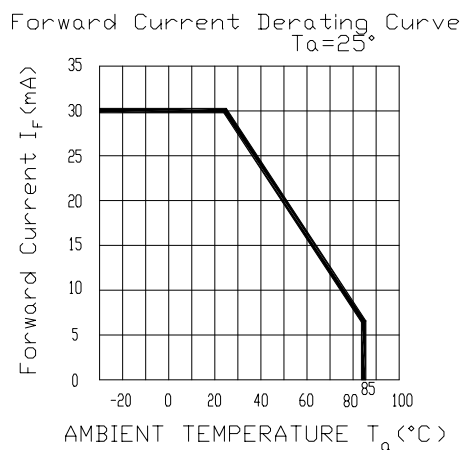
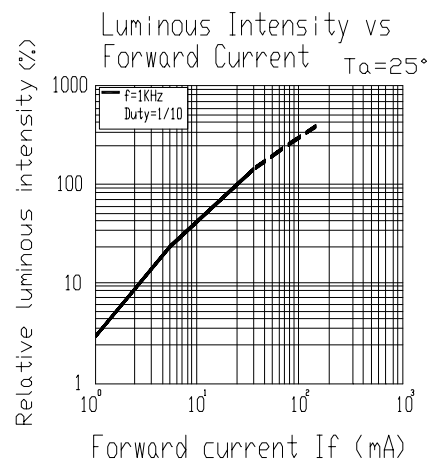
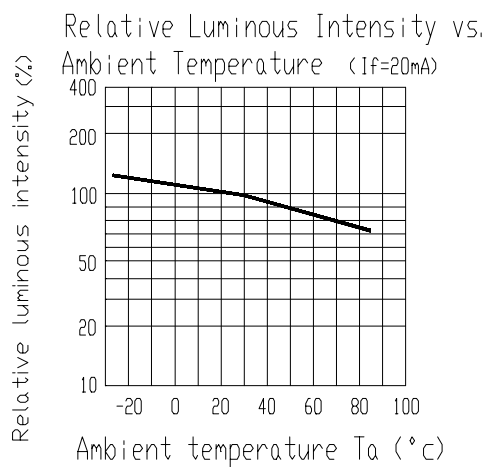
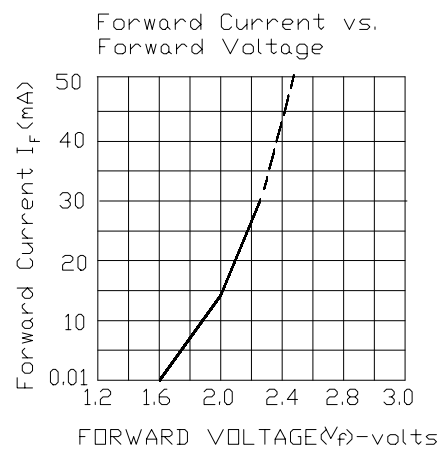
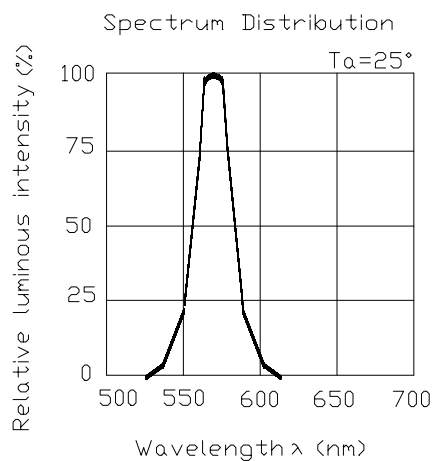
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■ Typical Electro-Optical Characteristic Curves





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2 X 5 mm Rectangular LEDs

MODEL NO : 4524GD

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■ Reliability test items and conditions

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Soldering 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