EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-100-002 REV: 2.0

3.68*6.22mm Rectangular Legend LED Lamps

MODEL NO : 1003GD ECN : Page: 1/4

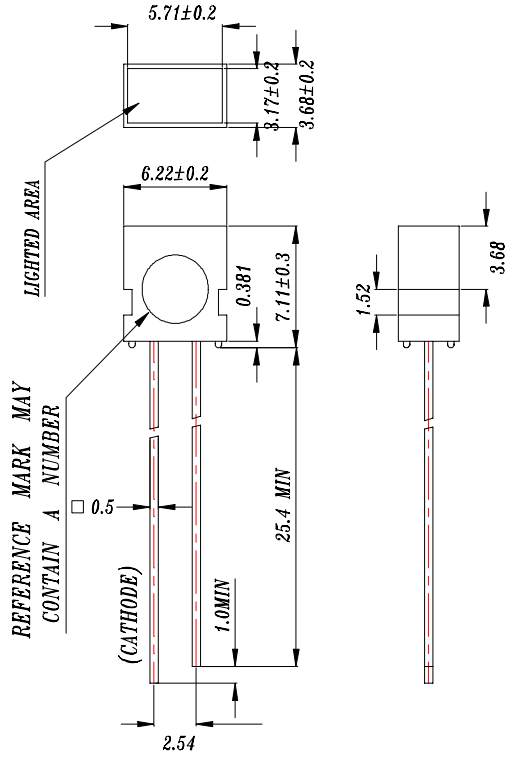
■ Features :

- Choice of various viewing angles
- Availablc on table and reel
- Reliable and rubust
- Pb free
- The product itself will remain within RoHS compliant version.

■ Descriptions :

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

■ Package Dimensions:



■ 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	
1003GD	GaP	Green	Green Diffused

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

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MODEL NO : 1003GD ECN : Page: 2/4

Absolute Maximum Ratings at Ta = 25℃

Parameter	Symbol	Rating	Unit
Forward Current	If	30	mA
Operating Temperature	Topr	-40 to +85	℃
Storage Temperature	Tstg	-40 to +100	℃
Soldering Temperature	Tsol	260 ± 5	℃
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	1.0	4.0	／	mcd	If= 10 mA
Viewing Angle	2θ1/2	／	100	／	deg	If= 20 mA
Peak Wavelength	λp	／	565	／	nm	If= 20 mA
Dominant Wavelength	λd	／	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	μA	Vr= 5 V

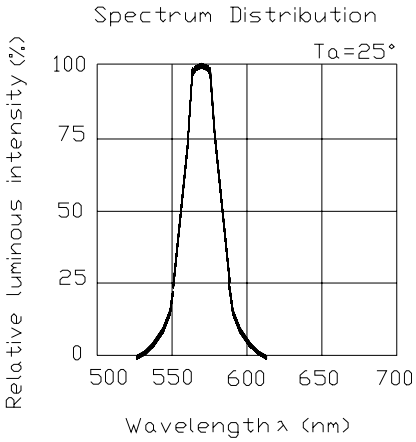
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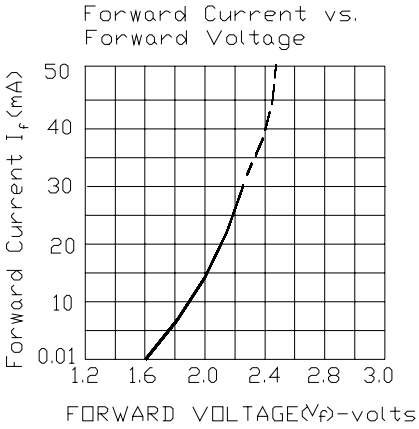
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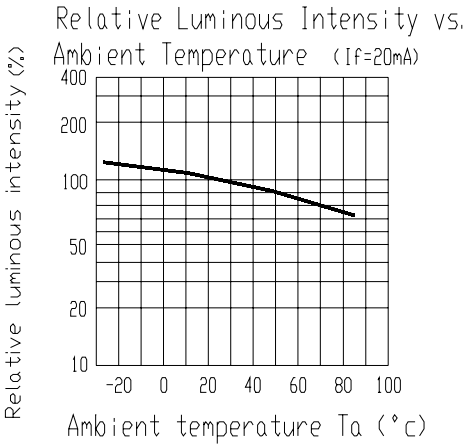
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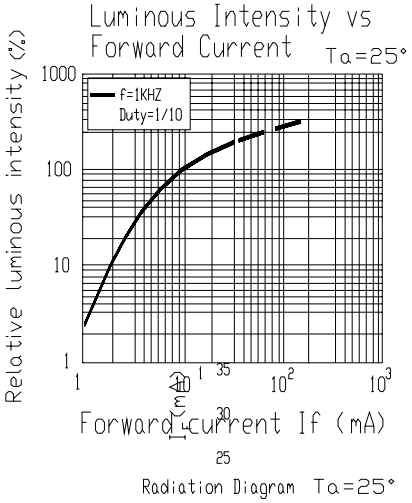
MODEL NO : 1003GD ECN : Page: 3/4

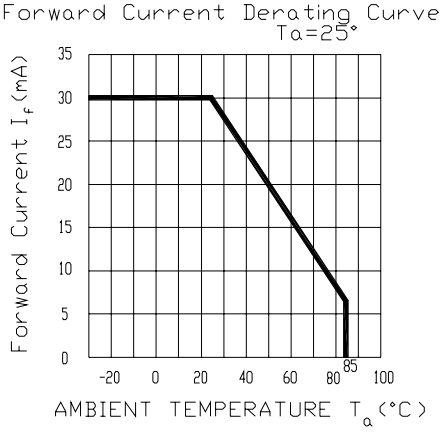
■ Typical Electro-Optical Characteristic Curves

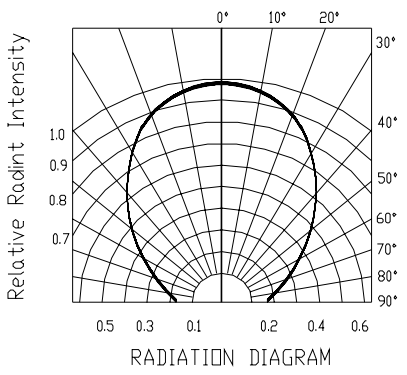












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MODEL NO : 1003GD ECN : Page: 4/4

■ Reliability test item and condition

No	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : 260℃ ± 5 ℃	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85℃ 30min ∫ 5 min L : -55℃ 30min	50 CYCLE	76 PCS	0/1
3	Thermal Shock	H : +100℃ 5min ∫ 10 sec L : -10℃ 5min	50 CYCLE	76 PCS	0/1
4	High Temperature Storage	TEMP : 100℃	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -55℃	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℃/85% RH	1000 HRS	76 PCS	0/1