



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-010-001 REV: 1.1

2.0mm Tower Type LED Lamps

MODEL NO : 103GD ECN : Page: 1/4

■ Features :

- Low power consumption.
- Suitable for pulse operation.
- Most suitable for audio panel indicator
- Fits 2mm hole in panels up 4.5mm (0.177inch)thick.

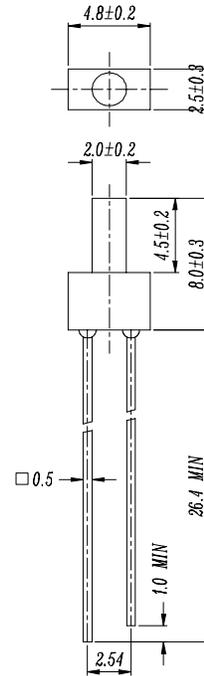
■ Description :

- The shape of this series is round.
- General application is for indication, illumination,etc.
- The Led lamp is available with different colors, light intensities,epoxy colors,etc.

■ Applications :

- Audio Equipment
- Monitor
- Car meter
- Computer

■ Package Dimension:



■ NOTES :

- 1.All dimensions are millimeters, tolerance is 0.25 mm except be specified.
- 2.An epoxy meniscus may extend about is 1.5mm(0.059") down the lead.

PART NO	CHIP		Lens Color
	Material	Emitted Color	
103GD	GaP	Green	Green Diffused

DESIGNER	CHECKER	APPROVER

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

TEL : 886-2-2267-2000,2266-9936(22 Lines)
FAX : 886-2-2267-6189



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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

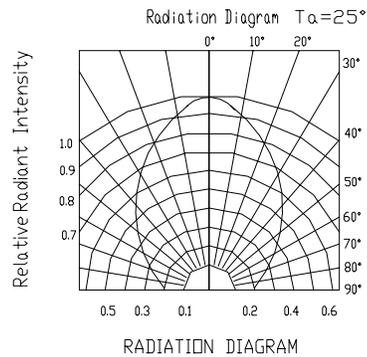
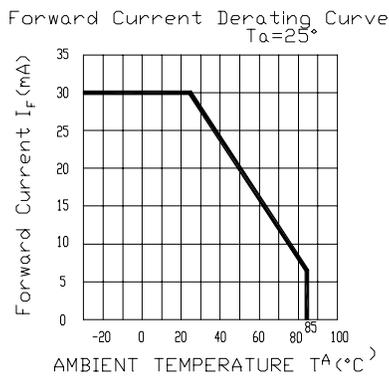
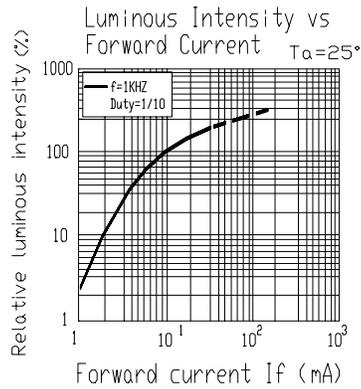
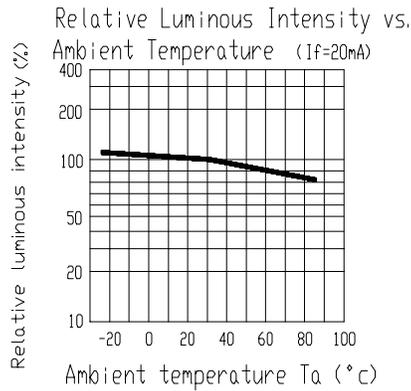
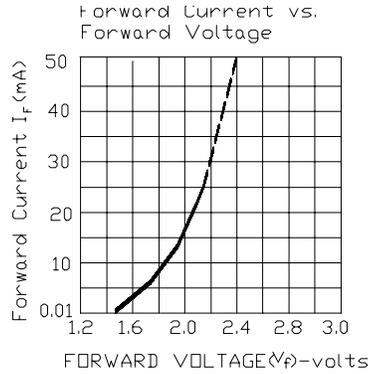
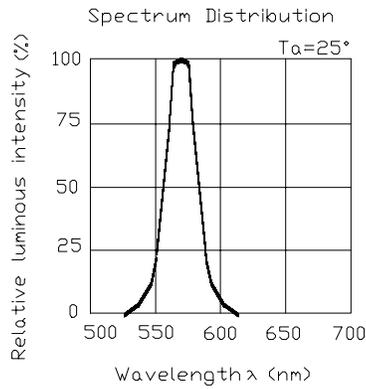
■ Electronic Optical Characteristics :

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous intensity	Iv	1.00	2.50	-----	mcd	If= 10 mA
Viewing Angle	2θ 1/2	----	90	----	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	u A	Vr =5V



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■ Typical Electro-Optical Characteristic Curves





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■ Reliability test item and condition

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