



Ledman Optoelectronic Co., Ltd.

DATA SHEET

MODEL No : LL1501VVP1-151

ENG. No: B0511017

Description:

- 5mm Round lamp
- Lens Color: Water Clear
- Emitting Color: Green
- Viewing Angle :15°
- No Stopper

Dice Material: InGaN

PREPARED BY	CHECKED BY	APPROVED BY	CUSTOMER APPROVED SIGNATURES

Add: 7th Floor Haoyitong Building, North of Hi-Tech Industry Garden,
Nanshan District, Shenzhen, China

Tel: 86-755-86139688

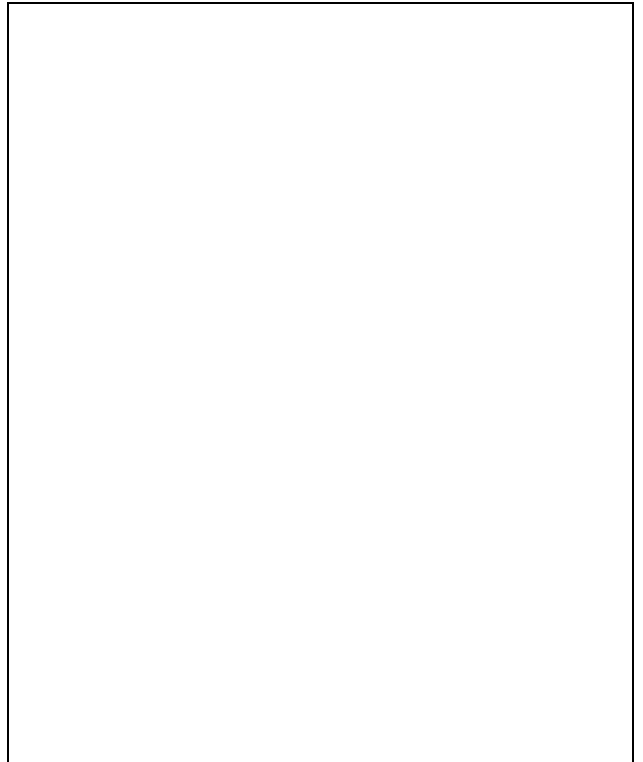
Fax: 86-755-86139001



Model No.	LL1501VVPG1-151
Revision:	B0511017

Applications:

Dimension Drawing



Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	Unit
Forward Current	I _F	25	mA
Peak Forward Current*	I _{FP}	100	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	120	mW
Operation Temperature	T _{opr}	-30 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T _{sol}	Max.260°C for 3 sec Max. (3mm from the base of the epoxy bulb)	

*pulse width <=0.1msec duty <=1/10

Typical Electrical & Optical Characteristics (Ta = 25°C)

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F = 20mA	2.8	3.4	4.0	V
Reverse Current	I _R	V _R = 5V	---	---	10	μA
Dominant Wavelength	λ _D	I _F = 20mA	---	525	---	nm
Luminous Intensity	I _v	I _F = 20mA	---	19000	---	mcd
50% Power Angle	2θ _{½H-H}	I _F = 20mA	---	15	---	deg
	2θ _{½V-V}	I _F = 20mA	---	--	---	deg

Important Notes:

- 1) All ranks will be included per delivery, rank ratio will be determined by LEDMAN.
- 2) Tolerance of measurement of luminous intensity is ±15%.
- 3) Tolerance of measurement of dominant wavelength is ±1nm.
- 4) Tolerance of measurement of Vf is ±0.05 V.
- 5) Packaging methods are available for selection, please refer to PACKAGING STANDARD.
- 6) Please refer to LED LAMP RELIABILITY TEST STANDARD for reliability test conditions.

Typical Optical-Electronic Characteristic Curves

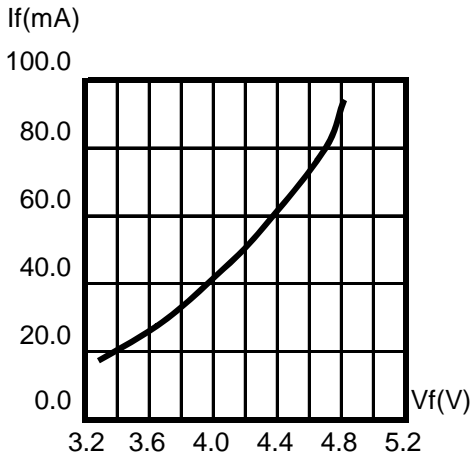


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

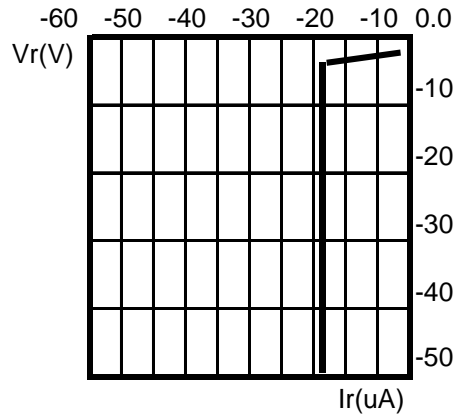


Fig.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

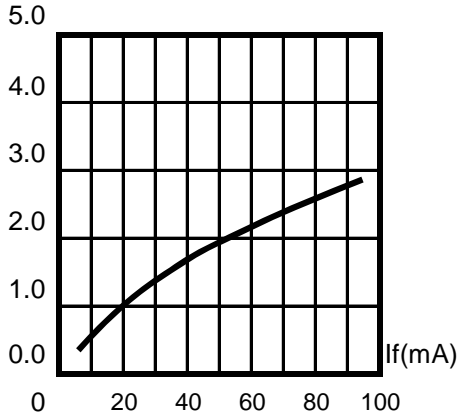


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

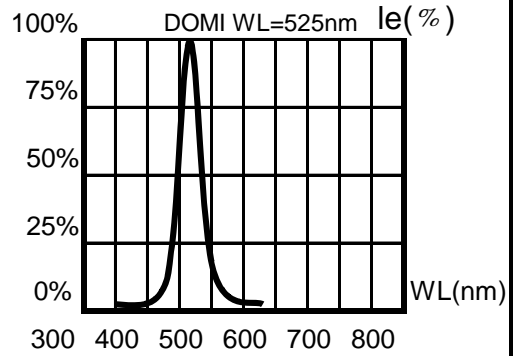


Fig.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

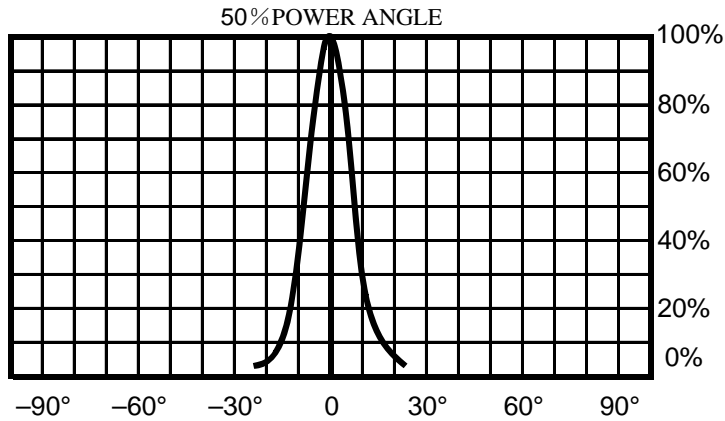


Fig.5 FAR FIELD PATTERN

Items	Signatures	Date	
Prepared by	Zhao Meiling	11-15-2005	
Checked by			
Approved by			