



EVERLIGHT ELECTRONICS CO.,LTD.

DATA SHEET

PART NO. : 383-2UBC/C470

DATE : 2002/9/9

DEPARTMENT : CHR&D1

REVISION : 2

RECEIVED			
☒ MASS PRODUCTION			
☐ PRELIMINARY			
☐ CUSTOMER DESIGN			
DEVICE NUMBER : CDLE-038-106			
PAGE : 4			
CUSTOMER	DESIGNER	CHECKER	APPROVER

2	Revision Update	2002/9/9
REV.	DESCRIPTION	RELEASE DATE

Office : 7C Building, Lian Hua Port Industrial District, Lian Hua Shan
Bonded Pricessing Zone Pan Yu, Guang Zhou, China
TEL. : (020)84860913,84860914
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[http : //www.everlight.com](http://www.everlight.com)



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-038-106 REV.: 2

5.0mm Round Type LED Lamps

PART NO. : 383-2UBC/C470 ECN: Page: 1/4

■ Features :

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

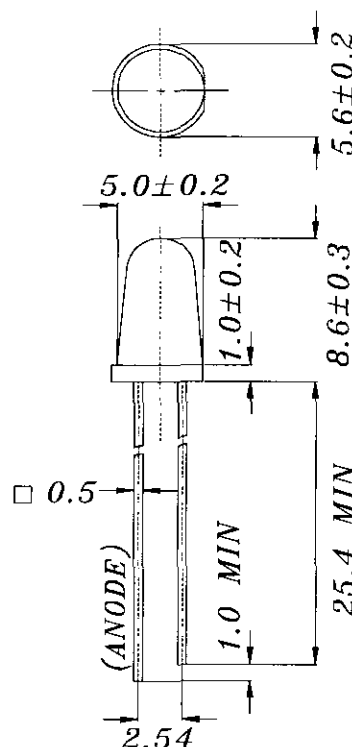
■ Descriptions :

- The series is specially designed for applications requiring higher brightness
- The led lamps are available with different colors, intensities,

■ 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	
383-2UBC/C470	InGaN/SiC	Blue	Water Clear

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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
Electrostatic Discharge	ESD	1000	V
Power Dissipation	Pd	120	mW
Peak Forward Current(Duty 1/10 @ 1KHz)	IF(Peak)	100	mA
Reverse Voltage	VR	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	400	800	/	mcd	IF= 20 mA
Viewing Angle	2θ 1/2	/	6	/	deg	IF= 20 mA
Peak Wavelength	λ p	/	468	/	nm	IF= 20 mA
Dominant Wavelength	λ d	/	470	/	nm	IF= 20 mA
Spectrum Radiation Bandwidth	△ λ	/	26	/	nm	IF= 20 mA
Forward Voltage	VF	/	3.5	4.3	V	IF= 20 mA
Reverse Current	IR	/	/	50	μ A	VR= 5 V



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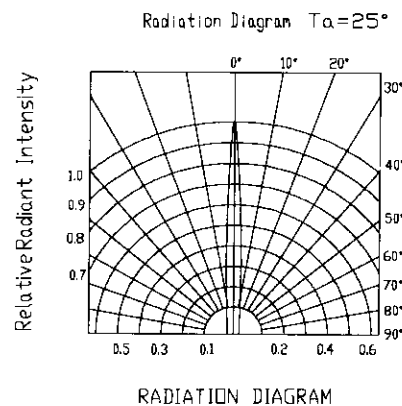
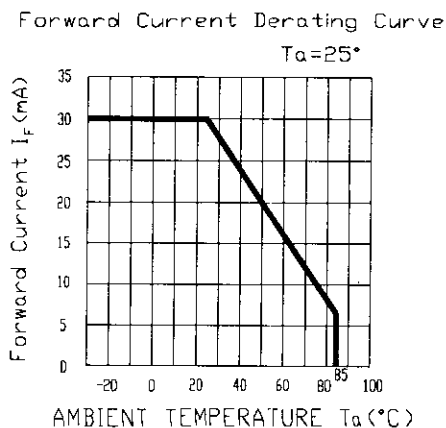
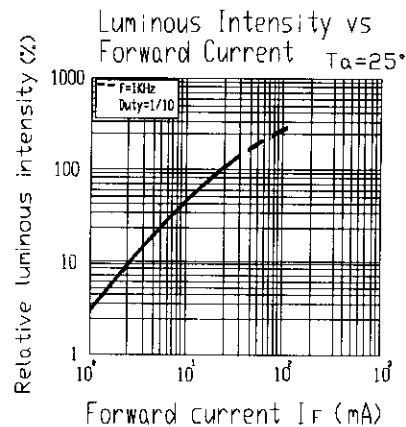
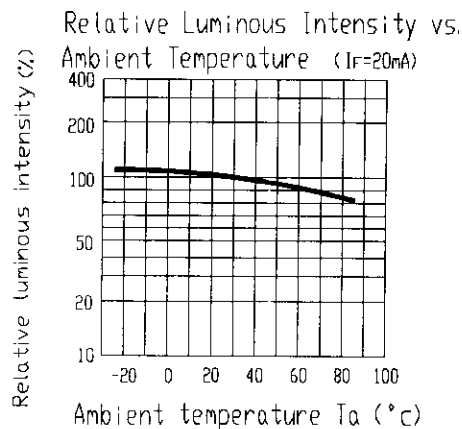
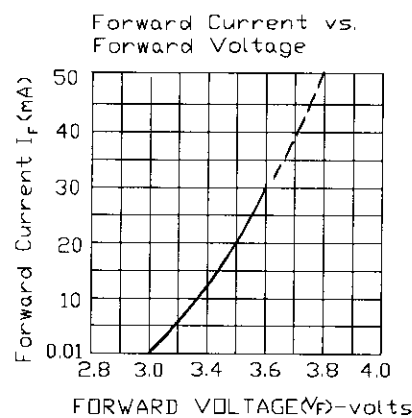
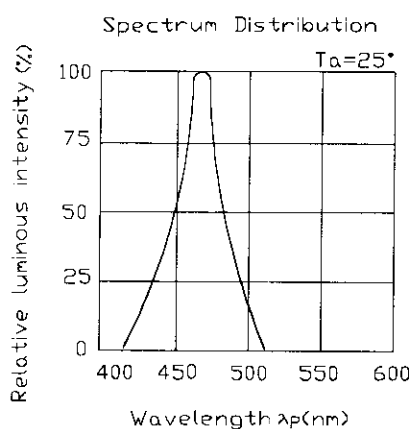
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■ Typical Electro-Optical Characteristic Curves:

(UB)





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■ Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle		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	TEMP : 25°C If = 20mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C / 85% RH	1000 HRS	76 PCS	0/1