



EVERLIGHT ELECTRONICS CO.,LTD.



# DATA SHEET

**MODEL NO :** 1224USOC/S530-A3

**DATE :** 2000/3/10

**DEPARTMENT :** CHR&D1

**REVISION :** 1

<b>RECEIVED</b>			
<input checked="" type="checkbox"/> MASS PRODUCTION			
<input type="checkbox"/> PRELIMINARY			
<input type="checkbox"/> CUSTOMER DESIGN			
DEVICE NUMBER :		CDLE-122-071	
PAGE :		4	
CUSTOMER	DESIGNER	CHECKER	APPROVER
		/	

1		2000/3/10
REV	DESCRIPTION	RELEASE DATE

Office : 7C Building, Lian Hua Port Industrial District, Lian Hua Shan  
 Bonded Processing Zone Pan Yu, Guang Zhou, China  
 TEL : (020)84860913,84860914  
 FAX : (020)84860600  
[http : //www.everlight.com](http://www.everlight.com)



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-122-071

REV: 1

## 3.0mm Round Type LED Lamps

MODEL NO : 1224USOC/S530-A3

ECN :                     

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### ■ Features :

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

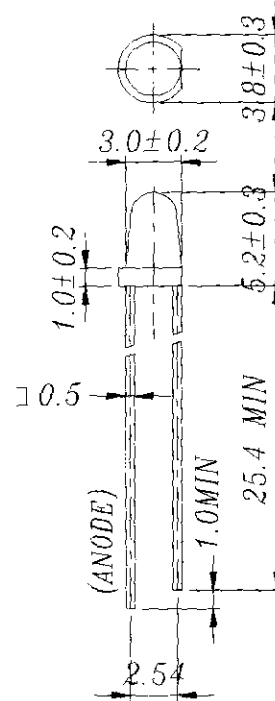
### ■ Descriptions :

- The series is specially designed for applications require higher brightness than that achievable with standard lamp.
- The LED lamp are available with different colors, intensities, epoxy colors, etc.

### ■ Applications :

- TV set
- Monitor
- Telephone
- Computer

### ■ Package Dimensions:



### ■ NOTES :

- 1.All dimensions are in millimeters.
- 2.Epoxy meniscus may extend about 1.5mm(0.059") down to the lead.

PART NO	CHIP		Lens Color
	Material	Emitted Color	
<b>1224USOC/S530-A3</b>	<b>AlGaInP</b>	<b>Super Sunset Orange</b>	<b>Water Clear</b>

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3.0mm Round Type LED Lamps

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## ■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	If	25	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Power Dissipation	Pd	60	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	188.00	295.00	/	mcd	If= 20 mA
Viewing Angle	2θ 1/2	/	25	/	deg	If= 20 mA
Peak Wavelength	λ p	/	621	/	nm	If= 20 mA
Dominant Wavelength	λ d	/	615	/	nm	If= 20 mA
Spectrum Radiation Bandwidth	Δ λ	/	18	/	nm	If= 20 mA
Forward Voltage	Vf	1.70	2.00	2.40	V	If= 20 mA
Reverse Current	Ir	/	/	10	μ A	Vr= 5 V



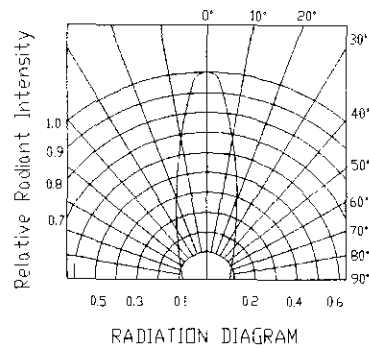
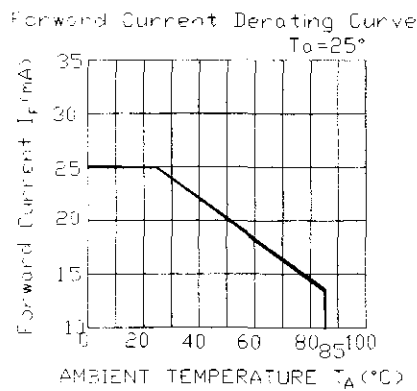
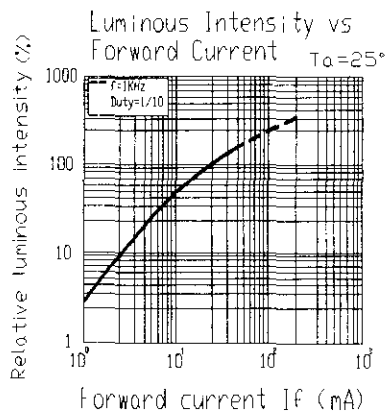
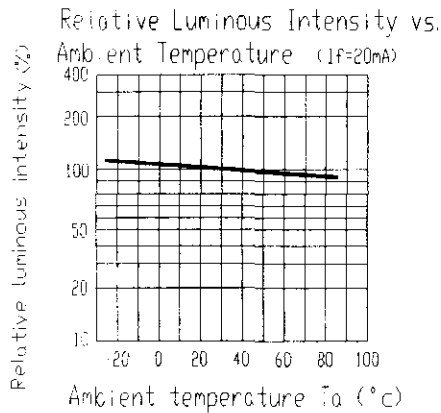
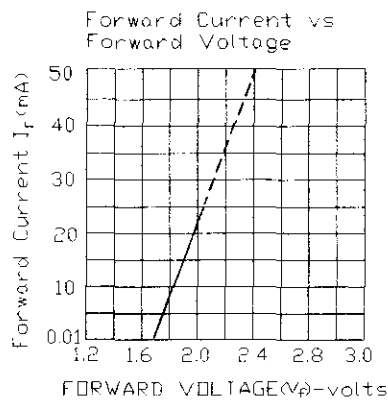
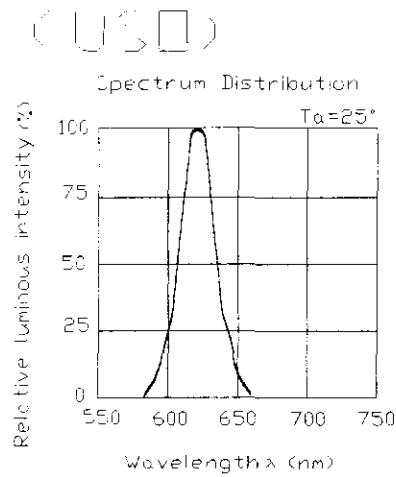
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### ■ Typical Electro-Optical Characteristic Curves:





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■ Reliability test item and conditions:

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