



EVERLIGHT ELECTRONICS CO.,LTD.



# DATA SHEET

PART NO. : 333-2UYC/S530-A3

DATE : 2002/8/2

DEPARTMENT : CHR&D1

REVISION : 5

<b>RECEIVED</b>			
<input checked="" type="checkbox"/> MASS PRODUCTION			
<input type="checkbox"/> PRELIMINARY			
<input type="checkbox"/> CUSTOMER DESIGN			
DEVICE NUMBER :		CDLE-033-185	
PAGE :		4	
CUSTOMER	DESIGNER	CHECKER	APPROVER
			

<b>5</b>	<b>Revision Update</b>	<b>2002/8/2</b>
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



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-033-185 REV.: 5

5.0mm Round Type LED Lamps

PART NO. : 333-2UYC/S530-A3

ECN: \_\_\_\_\_ Page: 1/4

### ■ Features :

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

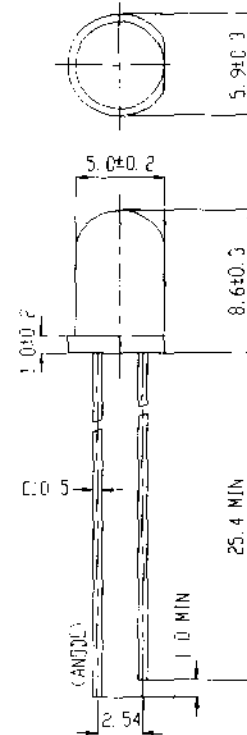
### ■ Descriptions :

- 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	
333-2UYC/S530-A3	AlGaInP	Super Yellow	Water Clear

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

A0012045,Q001220

5.0mm Round Type LED Lamps

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

Parameter	Symbol	Rating	Unit
Forward Current	I <sub>F</sub>	25	mA
Operating Temperature	T <sub>opr</sub>	-40 to +85	°C
Storage Temperature	T <sub>stg</sub>	-40 to +100	°C
Soldering Temperature	T <sub>sol</sub>	260 ± 5	°C
Electrostatic Discharge	ESD	2000	V
Power Dissipation	P <sub>d</sub>	60	mW
Peak Forward Current(Duty 1/10 @ 1KHz)	I <sub>F(Peak)</sub>	160	mA
Reverse Voltage	V <sub>R</sub>	5	V

**■ Electronic Optical Characteristics :**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I <sub>v</sub>	630	1600	/	mcđ	I <sub>F</sub> = 20 mA
Viewing Angle	2θ 1/2	/	10	/	deg	I <sub>F</sub> = 20 mA
Peak Wavelength	λ <sub>p</sub>	/	591	/	nm	I <sub>F</sub> = 20 mA
Dominant Wavelength	λ <sub>d</sub>	/	589	/	nm	I <sub>F</sub> = 20 mA
Spectrum Radiation Bandwidth	Δλ	/	15	/	nm	I <sub>F</sub> = 20 mA
Forward Voltage	V <sub>F</sub>	/	2.0	2.4	V	I <sub>F</sub> = 20 mA
Reverse Current	I <sub>R</sub>	/	/	10	μA	V <sub>R</sub> = 5 V



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-033-185 REV.: 5

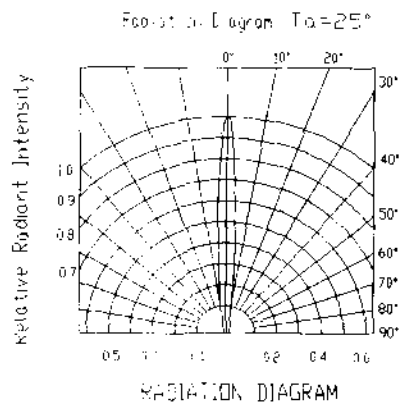
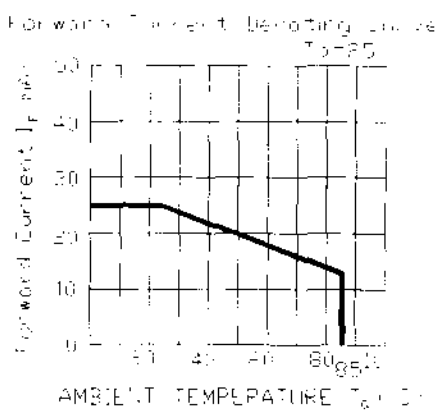
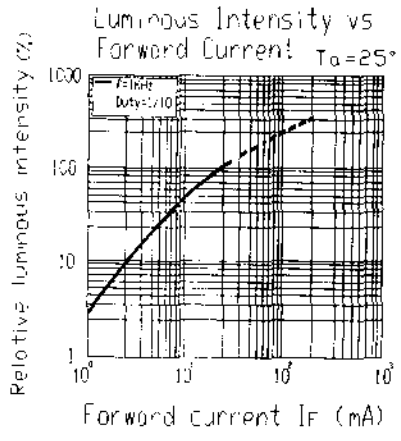
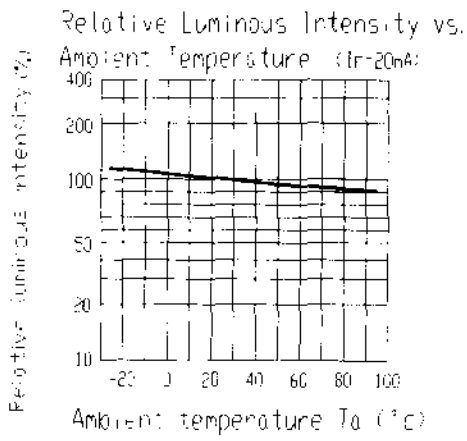
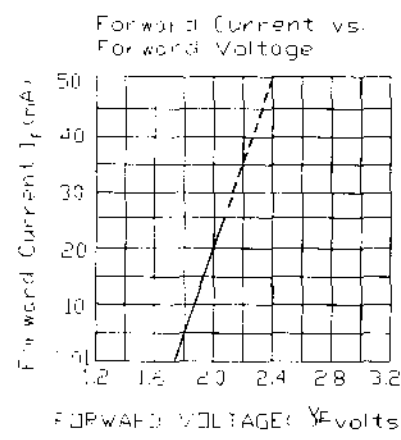
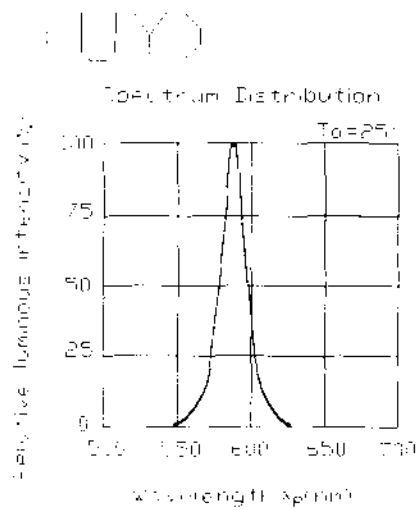
5.0mm Round Type LED Lamps

PART NO. : 333-2UYC/S530-A3

ECN : \_\_\_\_\_

Page: 3/4

## ■ Typical Electro-Optical Characteristic Curves:



5.0mm Round Type LED Lamps

PART NO. : 333-2UYC/S530-A3

ECN : \_\_\_\_\_

Page: 4/4

■ 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