



EVERLIGHT ELECTRONICS CO.,LTD.




# DATA SHEET

**MODEL NO** : 333-2SURD/S530-A3

**DATE** : 2000/8/8

**DEPARTMENT** : CHR&D1

**REVISION** : 1

<b>RECEIVED</b>			
<input checked="" type="checkbox"/> <b>MASS PRODUCTION</b>			
<input type="checkbox"/> <b>PRELIMINARY</b>			
<input type="checkbox"/> <b>CUSTOMER DESIGN</b>			
<b>DEVICE NUMBER</b> :		CDLE-033-600	
<b>PAGE</b> :		4	
CUSTOMER	DESIGNER	CHECKER	APPROVER
			

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-033-600 REV: 1

## 5.0mm Round Type LED Lamps

MODEL NO : 333-2SURD/S530-A3 ECN : \_\_\_\_\_ Page: 1/4

### ■ Features :

- Popular T-1 3/4 diameter package.
- Choice of various viewing angles.
- Available on tape and reel.
- Reliable and robust.

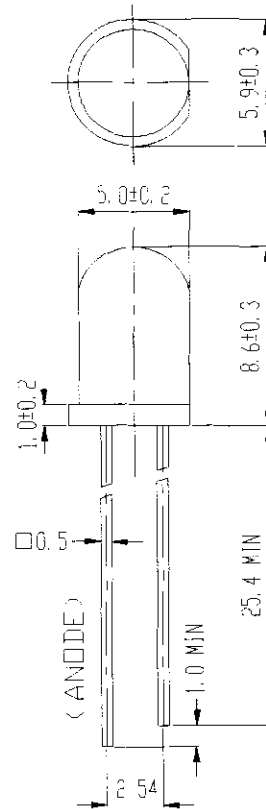
### ■ Descriptions :

- The series is specially designed for applications requiring higher brightness
- The LED lamps are available with different colors, intensities, epoxy colors, etc.

### ■ 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.

PART NO	Chip		Lens Color
	Material	Emitted Color	
333-2SURD/S530-A3	AlGaInP	Hyper Red	Red Diffused

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MODEL NO : 333-2SURD/S530-A3 ECN :          Page: 2/4

### ■ 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
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	60	mW
Peak Forward Current(Duty 1/10 @ 1KHz)	IF(Peak)	160	mA
Reverse Voltage	VR	5	V

### ■ Electronic Optical Characteristics :

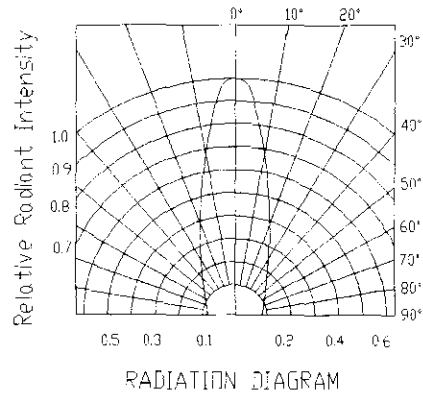
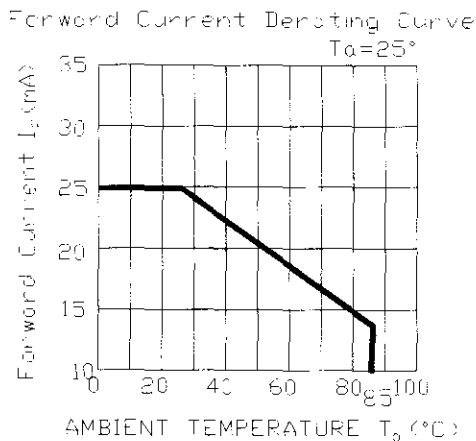
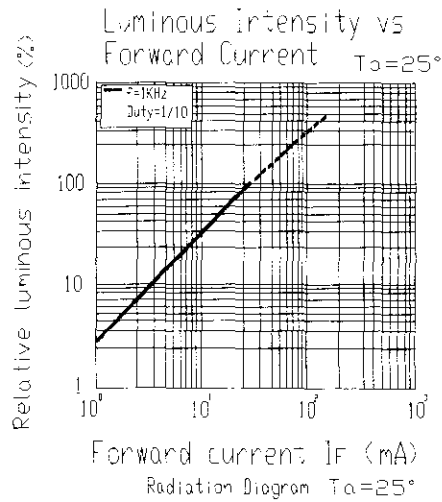
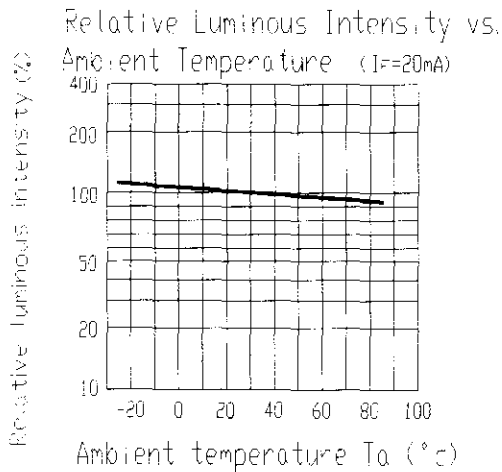
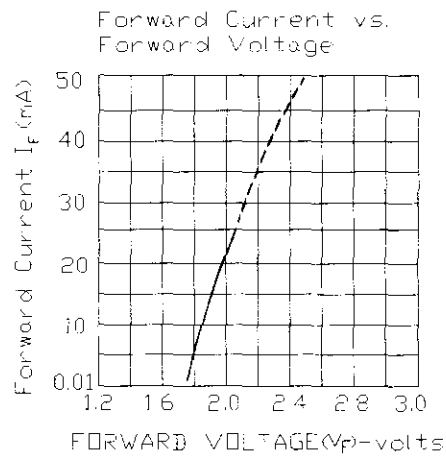
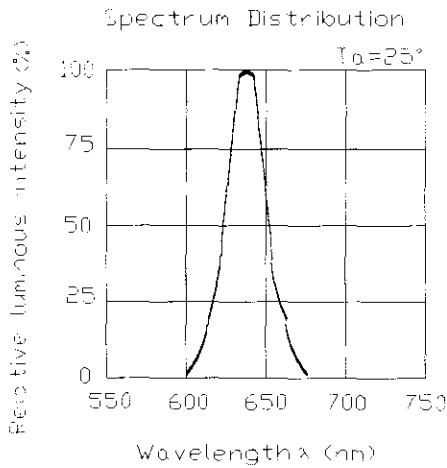
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	100.00	200.00	/	mcd	IF= 20 mA
Viewing Angle	2θ 1/2	/	30	/	deg	IF= 20 mA
Peak Wavelength	λp	/	632	/	nm	IF= 20 mA
Dominant Wavelength	λd	/	624	/	nm	IF= 20 mA
Spectrum Radiation Bandwidth	Δλ	/	20	/	nm	IF= 20 mA
Forward Voltage	VF	1.70	2.00	2.40	V	IF= 20 mA
Reverse Current	IR	/	/	10	μA	VR= 5 V



5.0mm Round Type LED Lamps

■ Typical Electro-Optical Characteristic Curves:

(SUR)





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MODEL NO : 333-2SURD/S530-A3 ECN : \_\_\_\_\_ Page: 4/4

## ■ Reliability test items 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 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	IF = 20 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C /85% RH	1000 HRS	76 PCS	0/1