



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-033-600 REV.: 1

5.0mm Round Type LED Lamps

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

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

**Features :**

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

**Descriptions :**

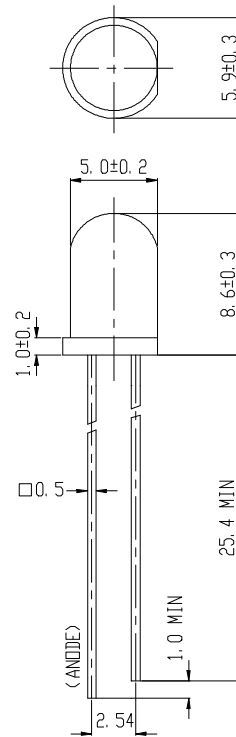
The series is specially designed for applications requiring higher brightness

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  $\pm 0.25$ mm.

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

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

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

## Absolute Maximum Ratings at Ta = 25

Parameter	Symbol	Rating	Unit
Forward Current	IF	25	mA
Operating Temperature	Topr	-40 to +85	
Storage Temperature	Tstg	-40 to +100	
Soldering Temperature	Tsol	260 ± 5	
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	200	/	mcd	IF= 20 mA
Viewing Angle	2 1/2	/	30	/	deg	IF= 20 mA
Peak Wavelength	p	/	632	/	nm	IF= 20 mA
Dominant Wavelength	d	/	624	/	nm	IF= 20 mA
Spectrum Radiation Bandwidth		/	20	/	nm	IF= 20 mA
Forward Voltage	VF	1.7	2.0	2.4	V	IF= 20 mA
Reverse Current	IR	/	/	10	μA	VR= 5 V



# EVERLIGHT ELECTRONICS CO.,LTD.

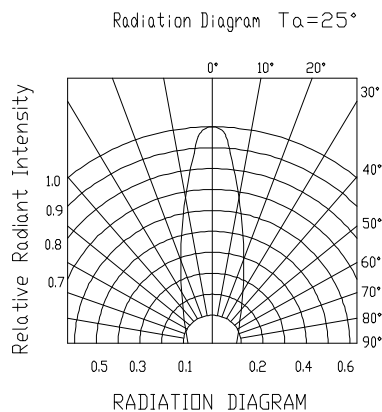
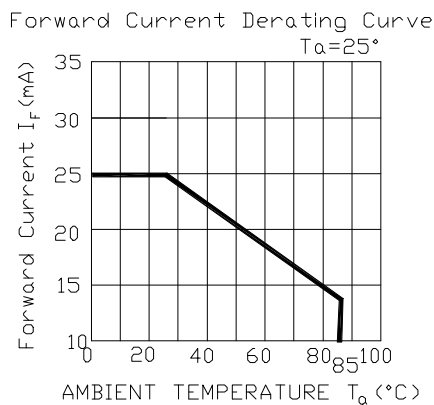
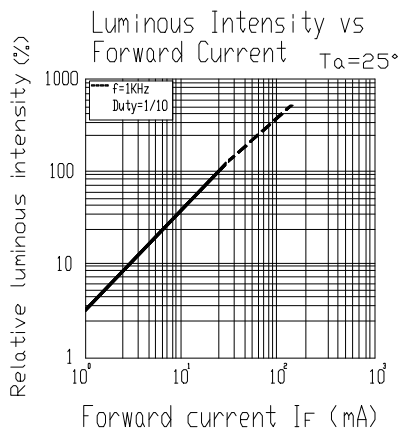
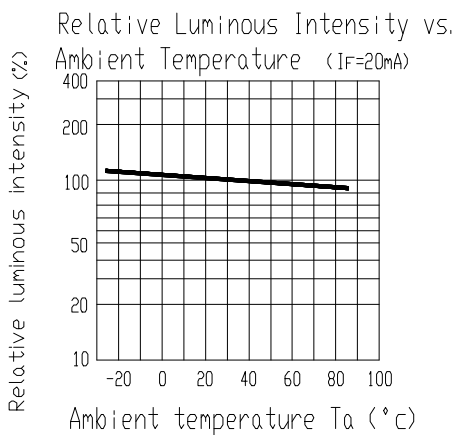
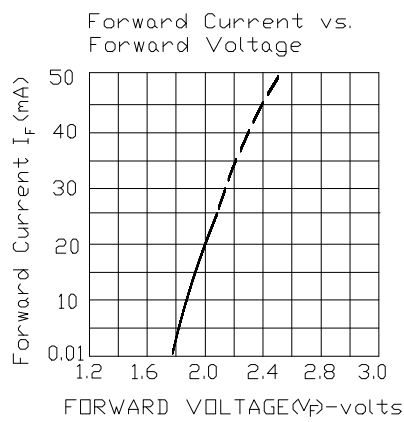
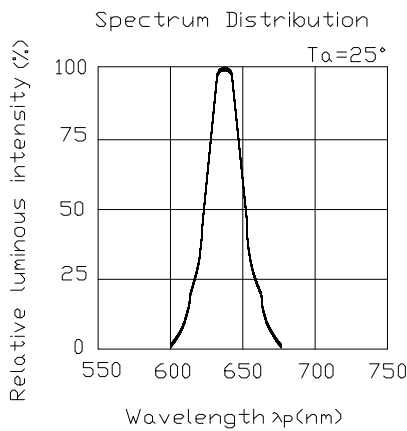
Device Number : CDLE-033-600 REV.: 1

5.0mm Round Type LED Lamps

PART NO. : 333-2SURD/S530-A3 ECN : \_\_\_\_\_ Page: 3/4

## Typical Electro-Optical Characteristic Curves:

( SUR )





# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-033-600 REV.: 1

5.0mm Round Type LED Lamps

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

## Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	Number	Ac/Re
1	Solder Heat	TEMP : 260 ± 5	10 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85 30min 5 min L : -55 30min	300 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100 5min 10 sec L : -10 5min	300 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : 100	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -40	1000 HRS	76 PCS	0/1
6	DC Operating Life	TEMP : 25 IF = 20mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85 / 85% RH	1000 HRS	76 PCS	0/1