



EVERLIGHT ELECTRONICS CO.,LTD.



# DATA SHEET

MODEL NO : 333-2SYGC/S530-E2

DATE : 1900/1/0

DEPARTMENT : CHR&D1

REVISION : 2

|   |   |                    |  |
|---|---|--------------------|--|
| <b>RECEIVED</b>                                     |   |                    |  |
| <input checked="" type="checkbox"/> MASS PRODUCTION |   |                    |  |
| <input type="checkbox"/> PRELIMINARY                |   |                    |  |
| <input type="checkbox"/> CUSTOMER DESIGN            |   |                    |  |
| DEVICE NUMBER :                                     |   | CDLE-033-368       |  |
| PAGE :  |   | 4                  |  |
| CUSTOMER  | DESIGNER  | CHECKER            | APPROVER   |
|   |  | 張永華<br>FEB-17-2002 |  |

|     |             |              |
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|     |             |              |
| 2   |             | 1900/1/0     |
| 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  
 FAX : (020)84860600  
 http : //www.everlight.com



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-033-368 REV: 2

## 5.0mm Round Type LED Lamps

MODEL NO : 333-2SYGC/S530-E2 ECN : \_\_\_\_\_ Page: 1/4

### ■ Features :

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

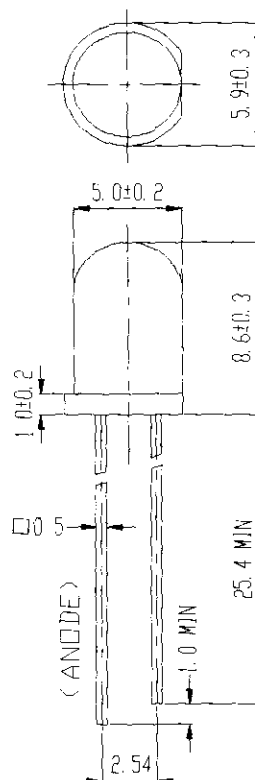
### ■ Descriptions :

- The series is specially designs 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      |             |
| 333-2SYGC/S530-E2 | AlGaInP  | Super Yellow Green | Water Clear |

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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   |
| 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 :

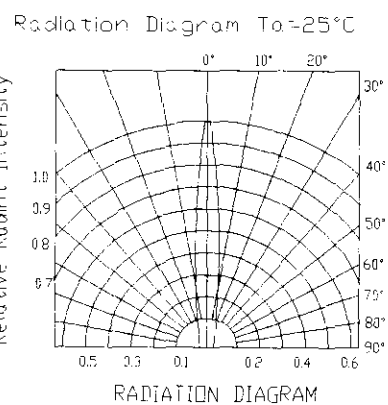
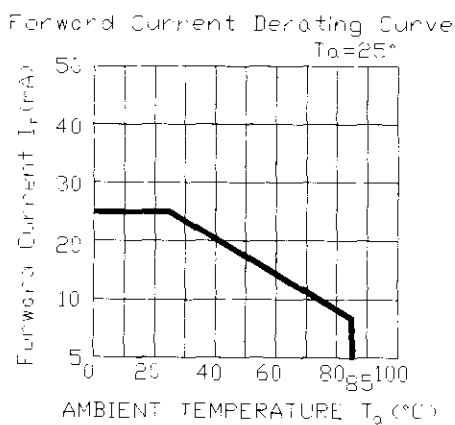
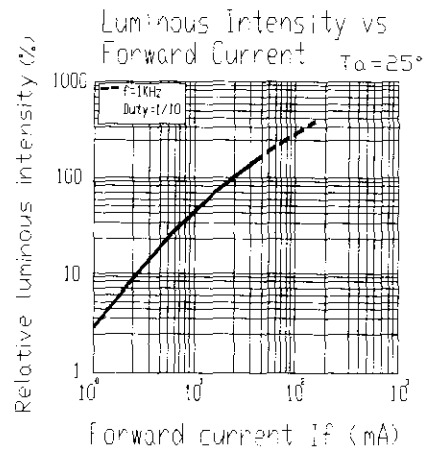
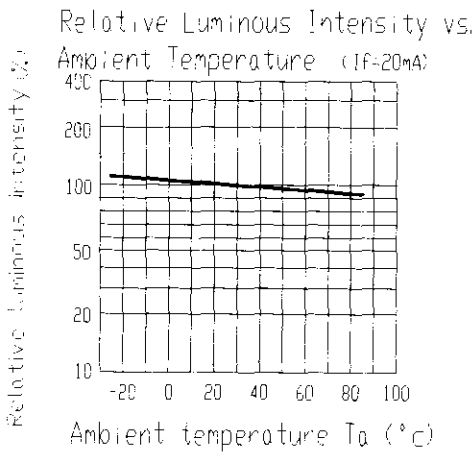
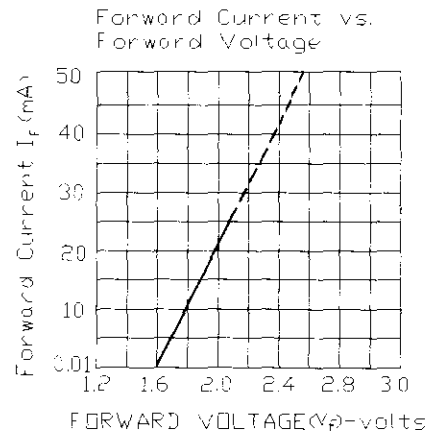
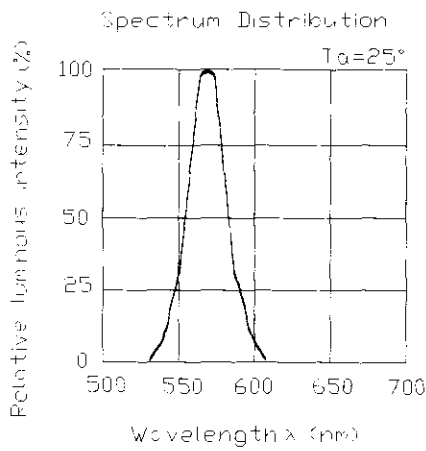
| Parameter                    | Symbol | MIN.   | TYP.   | MAX. | Unit | Condition |
|------------------------------|--------|--------|--------|------|------|-----------|
| Luminous intensity           | Iv     | 400.00 | 800.00 | /    | mcd  | If= 20 mA |
| Viewing Angle                | 2θ 1/2 | /      | 10     | /    | deg  | If= 20 mA |
| Peak Wavelength              | λp     | /      | 575    | /    | nm   | If= 20 mA |
| Dominant Wavelength          | λd     | /      | 573    | /    | 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:

(SYG)





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5.0mm Round Type LED Lamps

MODEL NO : 333-2SYGC/S530-E2 ECN : \_\_\_\_\_ Page: 4/4

■ 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<br>∫ 5 min<br>L : -55°C 30min | 50 CYCLE         | 76 Pcs      | 0/1   |
| 3  | Thermal Shock                    | H : +100°C 5min<br>∫ 10 sec<br>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   |