



EVERLIGHT ELECTRONICS CO.,LTD.

# DATA SHEET

PART NO. : A264B/SUR/S530-A3

DATE : 2005/8/26

DEPARTMENT : CHR&D1

REVISION : 2

|                                                     |          |         |          |
|-----------------------------------------------------|----------|---------|----------|
| RECEIVED                                            |          |         |          |
| <input checked="" type="checkbox"/> MASS PRODUCTION |          |         |          |
| <input type="checkbox"/> PRELIMINARY                |          |         |          |
| <input type="checkbox"/> CUSTOMER DESIGN            |          |         |          |
| DEVICE NUMBER : CDAE-026-077                        |          |         |          |
| PAGE : 6                                            |          |         |          |
| CUSTOMER                                            | DESIGNER | CHECKER | APPROVER |
|                                                     |          |         |          |

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| REV. | DESCRIPTION | RELEASE DATE |

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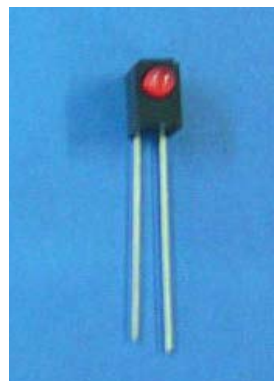
## Technical Data Sheet

### 3.0mm Round Type LED Lamps

#### A264B/SUR/S530-A3

#### ■ Features :

- Low power consumption
- High efficiency and low cost
- Good control and free combinations on the colors of LED lamps
- Good lock and easy to assembly
- Stackable and easy to assembly
- Stackable vertically and easy to assembly
- Versatile mounting on P.C board or panel
- Stackable horizontally and easy to assembly
- Pb free
- The product itself will remain within RoHS compliant version.



#### ■ Descriptions :

- ARRAY=Plastic Holder+Combinations of Lamps
- The array will easily mount the applicable lamps on any panel up to

#### ■ Applications :

- 1.Used as indicators of indicating the Degree, Functions, Positions etc, in electronic instruments.

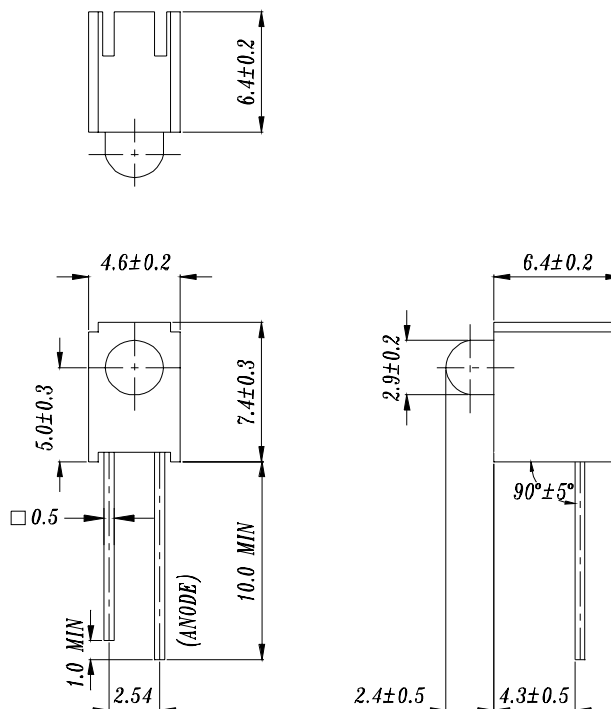
| PART NO.           | Chip     |               | Lens Color   |
|--------------------|----------|---------------|--------------|
|                    | Material | Emitted Color |              |
| 264-10SURD/S530-A3 | AlGaInP  | Hyper Red     | Red Diffused |

# Technical Data Sheet

## 3.0mm Round Type LED Lamps

### A264B/SUR/S530-A3

#### Package Dimensions



- Notes:** 1.All dimensions are in millimeters, tolerance is 0.25mm except being specified  
2.Lead spacing is measured where the lead emerge from the package

#### 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    | I <sub>F</sub> (Peak) | 60          | mA   |
| Reverse Voltage         | V <sub>R</sub>        | 5           | V    |

Note: \*1:I<sub>FP</sub> Conditions --Pulse Width ≤ 1msec and Duty ≤ 1/10.

\*2:Soldering time ≤ 5 seconds.



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## Technical Data Sheet

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#### A264B/SUR/S530-A3

#### Electro-Optical Characteristics (Ta=25℃)

| Parameter                    | Symbol         | Condition              | Min. | Typ. | Max. | Unit |
|------------------------------|----------------|------------------------|------|------|------|------|
| Forward Voltage              | V <sub>F</sub> | I <sub>F</sub> = 20 mA | /    | 2.0  | 2.4  | V    |
| Reverse Current              | I <sub>R</sub> | V <sub>R</sub> = 5 V   | /    | /    | 10   | μ A  |
| Luminous Intensity           | I <sub>v</sub> | I <sub>F</sub> = 20 mA | 63   | 125  | /    | mcd  |
| Viewing Angle                | 2 θ 1/2        | I <sub>F</sub> = 20 mA | /    | 60   | /    | deg  |
| Peak Wavelength              | λ <sub>p</sub> | I <sub>F</sub> = 20 mA | /    | 632  | /    | nm   |
| Dominant Wavelength          | λ <sub>d</sub> | I <sub>F</sub> = 20 mA | /    | 624  | /    | nm   |
| Spectrum Radiation Bandwidth | △ λ            | I <sub>F</sub> = 20 mA | /    | 20   | /    | nm   |

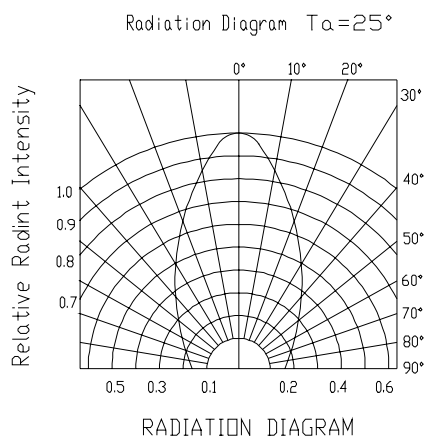
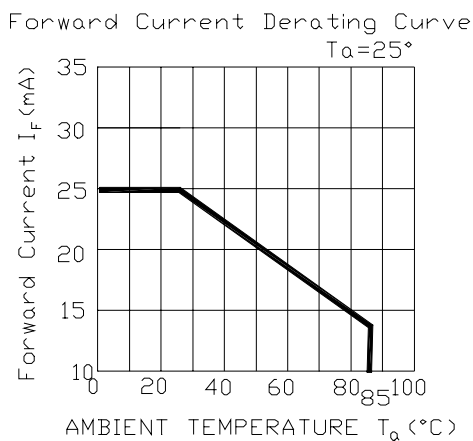
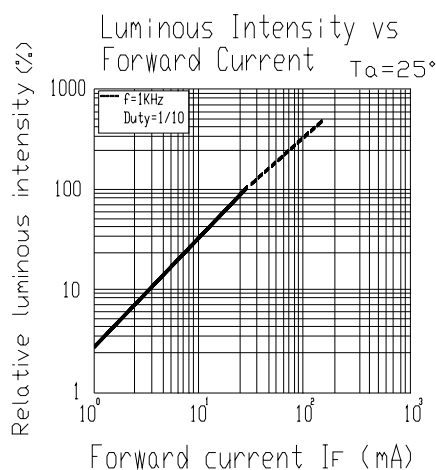
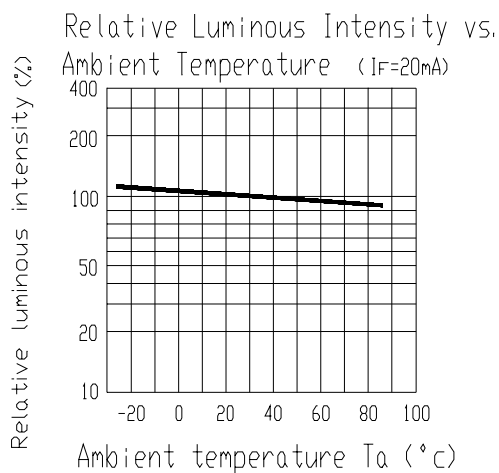
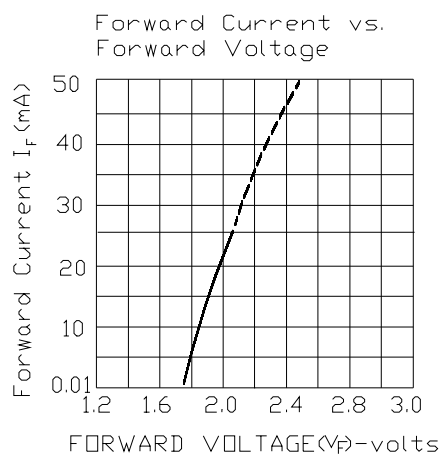
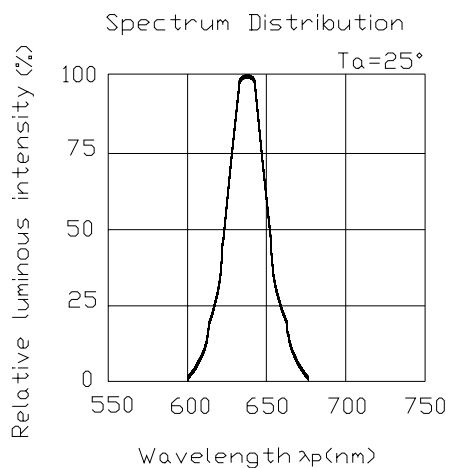
# Technical Data Sheet

## 3.0mm Round Type LED Lamps

### A264B/SUR/S530-A3

#### Typical Electro-Optical Characteristic Curves:

(SUR)





## Technical Data Sheet

## 3.0mm Round Type LED Lamps

**A264B/SUR/S530-A3**

## ■ Reliability test items and conditions:

| NO | Item                             | Test Conditions                                | Test Hours/Cycle | Sample Size | Ac/Re |
|----|----------------------------------|------------------------------------------------|------------------|-------------|-------|
| 1  | Solder Heat                      | TEMP : 260°C ± 5 °C                            | 10 SEC           | 76 PCS      | 0/1   |
| 2  | Temperature Cycle                | H : +100°C 15min<br>┆ 5 min<br>L : -40°C 15min | 300 CYCLES       | 76 PCS      | 0/1   |
| 3  | Thermal Shock                    | H : +100°C 5min<br>┆ 10 sec<br>L : -10°C 5min  | 300 CYCLES       | 76 PCS      | 0/1   |
| 4  | High Temperature Storage         | TEMP : 100°C                                   | 1000 HRS         | 76 PCS      | 0/1   |
| 5  | Low Temperature Storage          | TEMP : -40°C                                   | 1000 HRS         | 76 PCS      | 0/1   |
| 6  | DC Operating Life                | TEMP : 25°C<br>If = 20mA                       | 1000 HRS         | 76 PCS      | 0/1   |
| 7  | High Temperature / High Humidity | 85°C / 85% RH                                  | 1000 HRS         | 76 PCS      | 0/1   |



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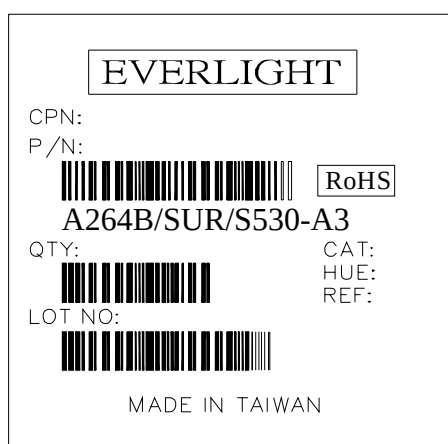
### 3.0mm Round Type LED Lamps

#### **A264B/SUR/S530-A3**

#### Packing Quantity Specification

- 1.500PCS/1Bag , 4Bags/1Box
2. 10Boxes/1Carton

#### Label Form Specification



CPN: Customer' s Production Number

P/N : Production Number

QTY: Packing Quantity

CAT: Ranks

HUE: Peak Wavelength

REF: Reference

LOT No: Lot Number

MADE IN TAIWAN: Production Place

#### Notes

1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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