



EVERLIGHT ELECTRONICS CO.,LTD.

# DATA SHEET

PART NO. : A214B/SUR/S530-A3

DATE : 2005/8/26

DEPARTMENT : CHR&D1

REVISION : 4

RECEIVED			
<input checked="" type="checkbox"/> MASS PRODUCTION			
<input type="checkbox"/> PRELIMINARY			
<input type="checkbox"/> CUSTOMER DESIGN			
DEVICE NUMBER : CDAE-021-048			
PAGE : 6			
CUSTOMER	DESIGNER	CHECKER	APPROVER

REV.	DESCRIPTION	RELEASE DATE

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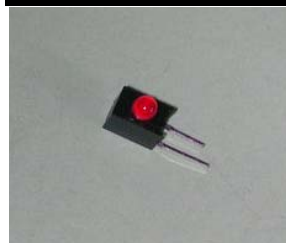


## Technical Data Sheet

## 3.0mm Round Type LED Lamps

**A214B/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.

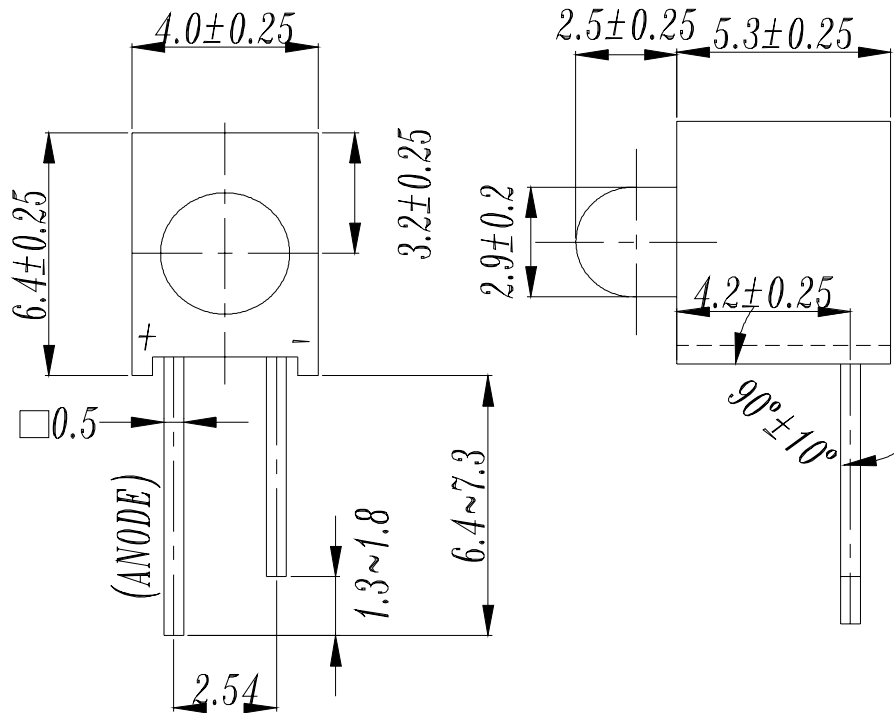
PART NO.	Chip		Lens Color
	Material	Emitted Color	
264-10SURD/S530-A3	AlGaInP	Hyper Red	Red Diffused

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## 3.0mm Round Type LED Lamps

### A214B/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	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	IF(Peak)	160	mA
Reverse Voltage	VR	5	V

Note: \*1:IFP Conditions --Pulse Width  $\leq$  1msec and Duty  $\leq$  1/10.

\*2:Soldering time  $\leq$  5 seconds.



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#### A214B/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	120	/	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

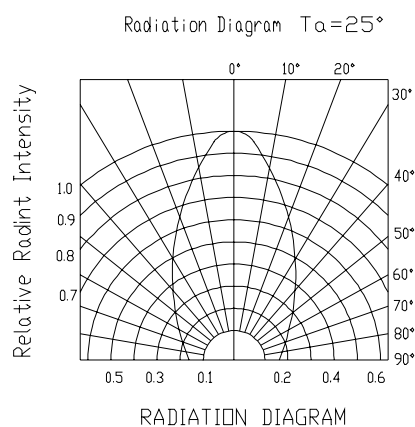
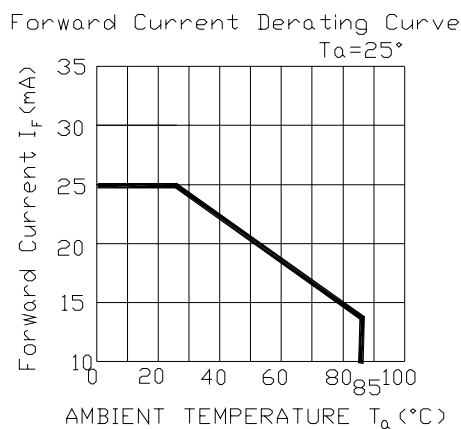
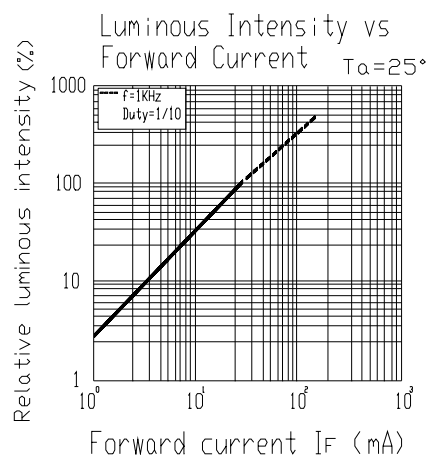
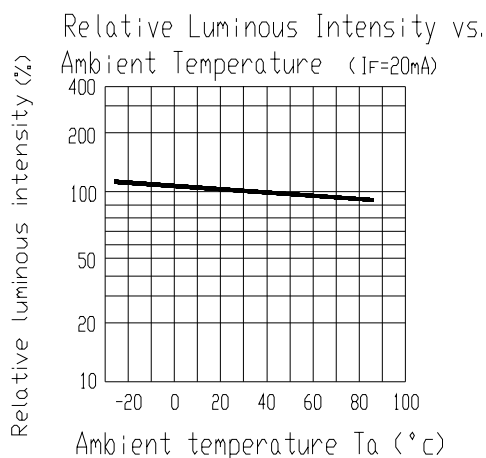
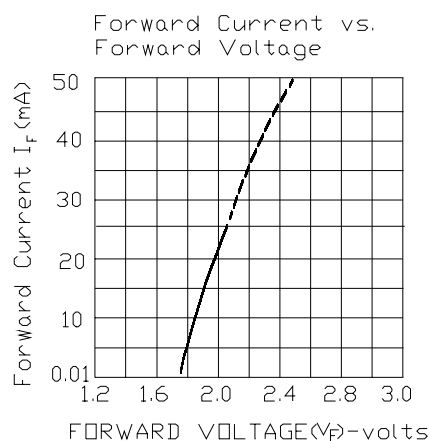
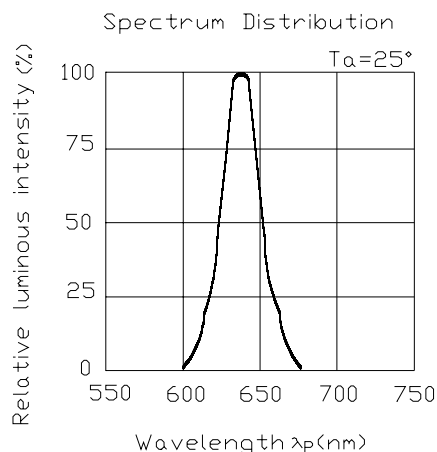
# Technical Data Sheet

## 3.0mm Round Type LED Lamps

### A214B/SUR/S530-A3

#### Typical Electro-Optical Characteristic Curves:

( SUR )







## Technical Data Sheet

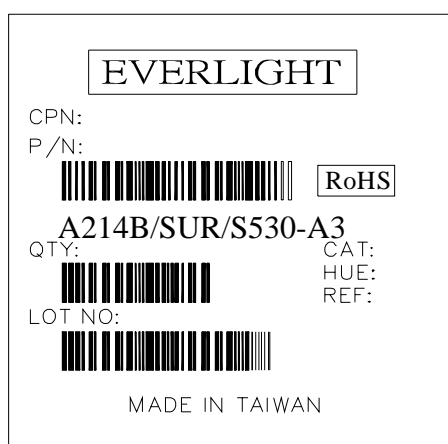
### 3.0mm Round Type LED Lamps

#### **A214B/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 with 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.
3. These specification sheets include materials protected under copyright of EVERLIGHT corporation. Please don' t reproduce or cause anyone to reproduce them without EVERLIGHT' s consent.

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