

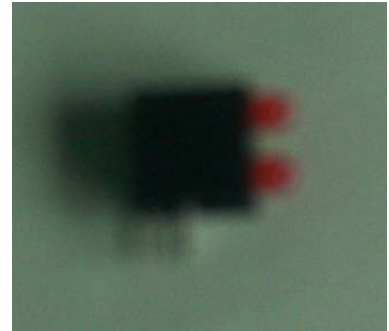
## Technical Data Sheet

## 3.0mm Round Type LED Lamps

**A694B/2SUR/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



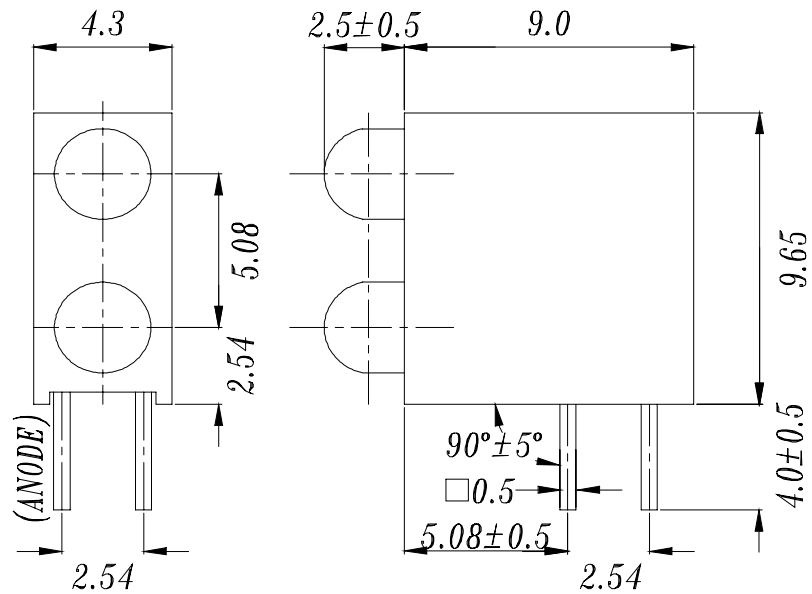
## ■ Descriptions :

- 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 |              |
| 234-10SURD/S530-A3 | AlGaInP  | Hyper Red     | Red Diffused |

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**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 ≤ 1msec and Duty ≤ 1/10.

\*2:Soldering time ≤ 5 seconds.



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**Electro-Optical Characteristics (Ta=25°C)**

| 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   | μA   |
| Luminous Intensity           | I <sub>v</sub> | I <sub>F</sub> = 20 mA | 10   | 25   | /    | mcd  |
| Viewing Angle                | 2θ 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 | Δλ             | I <sub>F</sub> = 20 mA | /    | 20   | /    | nm   |

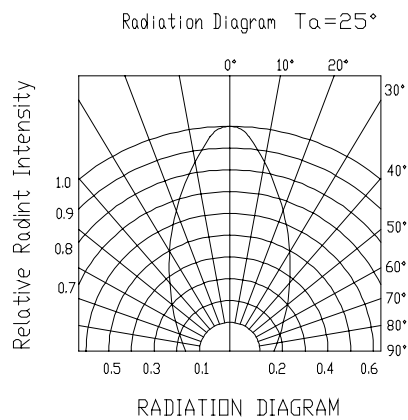
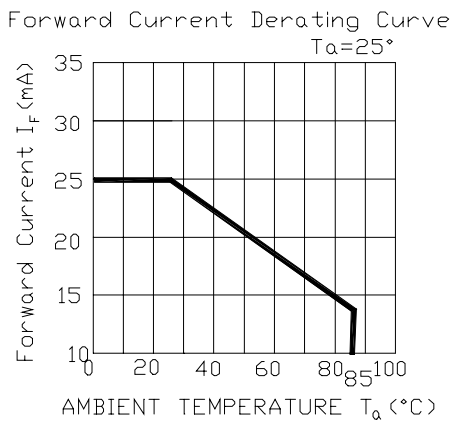
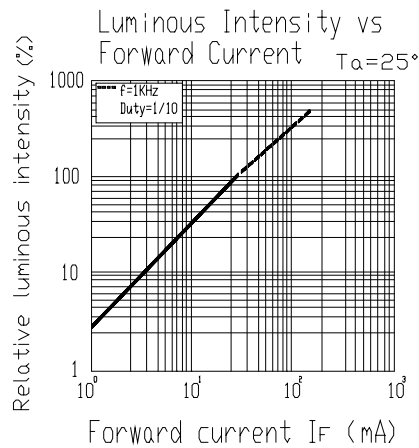
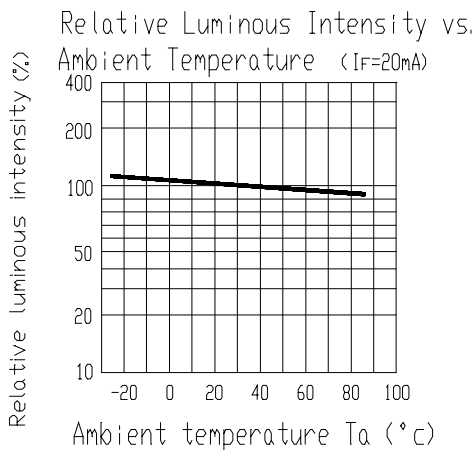
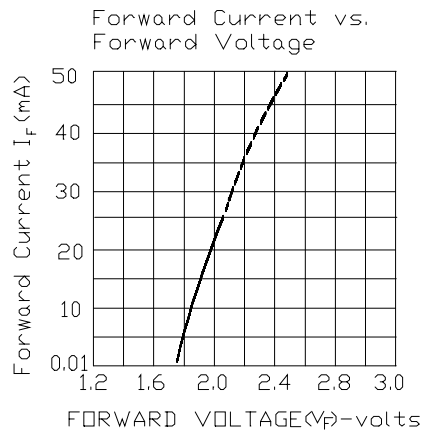
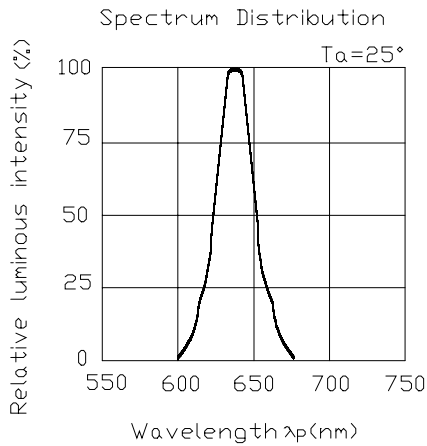
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■ Typical Electro-Optical Characteristic Curves:

( SUR )





## Technical Data Sheet

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## ■ 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   |



Technical Data Sheet

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**A694B/2SUR/S530-A3**

Packing Quantity Specification

- 1. 270PCS/1Plate , 4Plates/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

MADE IN TAIWAN

Notes

- 1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
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