



## Technical Data Sheet

### Light Emitting Diode (5 mm Round LED,T-1 3/4)

#### **7343-2USOC/S400-AX**

#### Features

- Popular T-1 3/4 diameter package.
- Choice of various viewing angles.
- Reliable and robust.
- Pb free
- The product itself will remain within RoHS compliant version.



#### Descriptions

- The series is specially designed for applications requiring higher brightness.
- The LED lamps are available with different colors,intensities,epoxy colors, etc.

#### Applications

- TV set.
- Monitor.
- Telephone.
- Computer.

#### Device Selection Guide

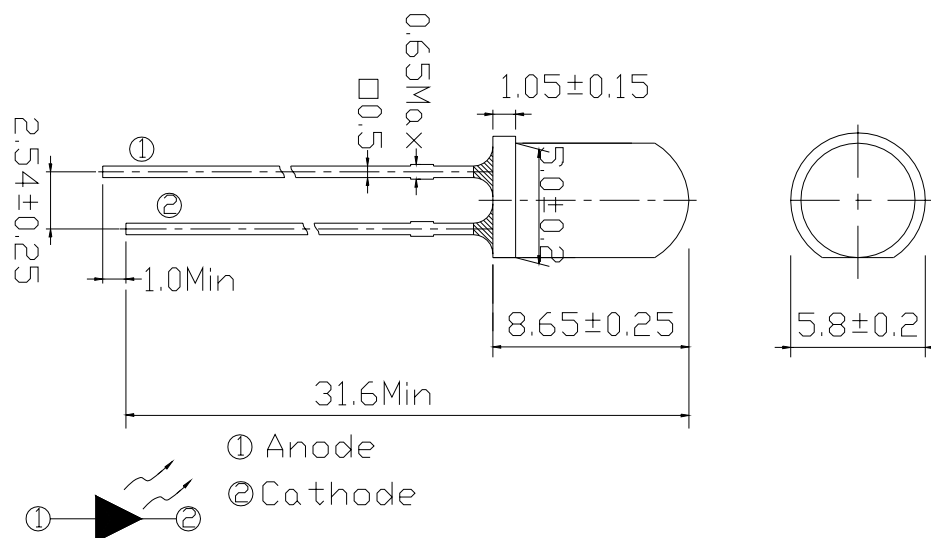
| Chip     |               | Lens Color  |
|----------|---------------|-------------|
| Material | Emitted Color |             |
| AlGaInP  | Super Orange  | Water Clear |

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#### Package Dimensions



#### Notes:

- All dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Lead spacing is measured where the lead emerges from the package.
- Protruded resin under flange is 1.5mm Max LED.

#### Absolute Maximum Ratings (Ta=25°C)

| Parameter                           | Symbol    | Rating      | Units |
|-------------------------------------|-----------|-------------|-------|
| Forward Current                     | $I_F$     | 50          | mA    |
| Pulse Forward Current <sup>*1</sup> | $I_{FP}$  | 200         | mA    |
| Operating Temperature               | $T_{opr}$ | -40 ~ +85   | °C    |
| Storage Temperature                 | $T_{stg}$ | -40 ~ +100  | °C    |
| Electrostatic Discharge             | ESD       | 2000        | V     |
| Soldering Temperature <sup>*2</sup> | $T_{sol}$ | 260 $\pm$ 5 | °C    |
| Power Dissipation                   | $P_d$     | 120         | mW    |
| Reverse Voltage                     | $V_R$     | 5           | V     |

**Notes:** \*1: $I_{FP}$  Conditions--Pulse Width  $\leq 10\text{msec}$  and Duty  $\leq 1/10$ .

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



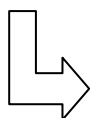
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## Electro-Optical Characteristics (Ta=25°C)

| Parameter                    | Symbol         | Condition            | Chip Rank | Min. | Typ. | Max. | Units |
|------------------------------|----------------|----------------------|-----------|------|------|------|-------|
| Forward Voltage              | V <sub>F</sub> | I <sub>F</sub> =20mA | --        | --   | 2.0  | 2.4  | V     |
| Reverse Current              | I <sub>R</sub> | V <sub>R</sub> =5V   | --        | --   | --   | 10   | μA    |
| Luminous Intensity           | I <sub>V</sub> | I <sub>F</sub> =20mA | A6        | 1000 | 1600 | --   | mcd   |
|                              |                |                      | A7        | 1250 | 2000 | --   |       |
|                              |                |                      | A8        | 1600 | 2500 | --   |       |
|                              |                |                      | A9        | 2000 | 3200 | --   |       |
| Viewing Angle                | 2 θ 1/2        | I <sub>F</sub> =20mA | --        | --   | 25   | --   | deg   |
| Peak Wavelength              | λ <sub>p</sub> | I <sub>F</sub> =20mA | --        | --   | 621  | --   | nm    |
| Dominant Wavelength          | λ <sub>d</sub> | I <sub>F</sub> =20mA | --        | --   | 615  | --   | nm    |
| Spectrum Radiation Bandwidth | Δ λ            | I <sub>F</sub> =20mA | --        | --   | 18   | --   | nm    |

**\*7343-2USOC/S400-AX**

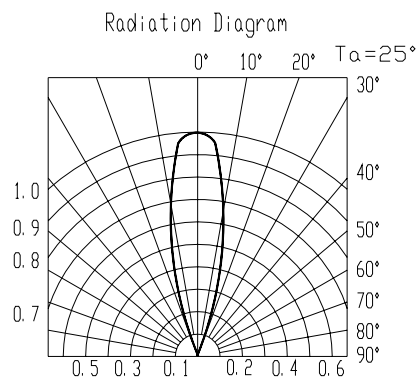
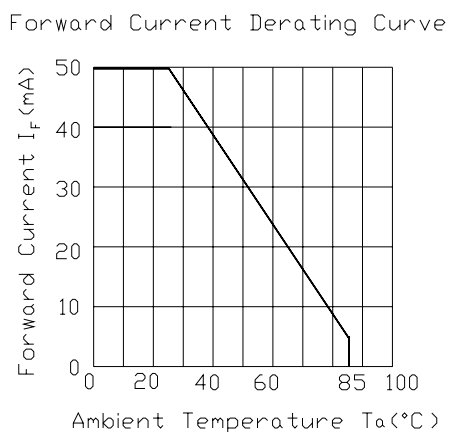
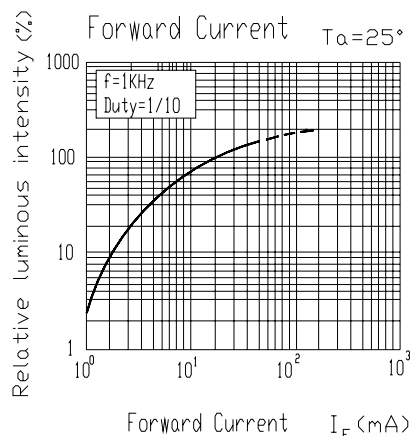
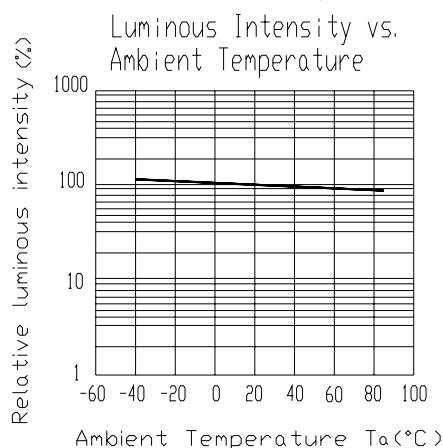
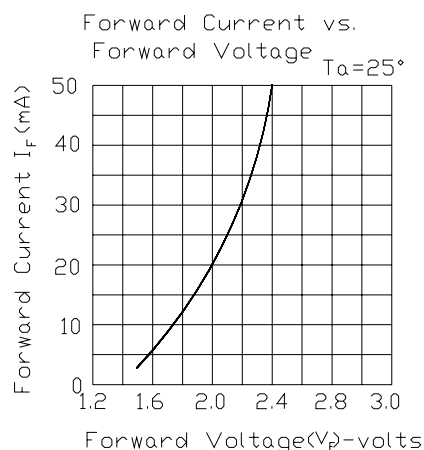
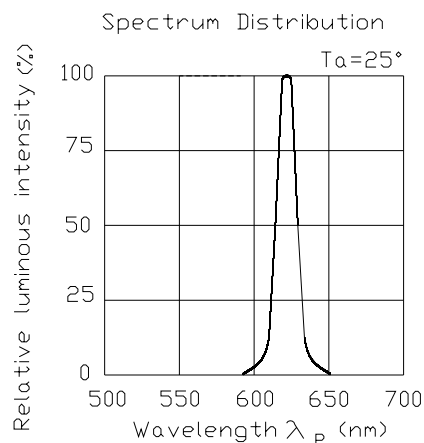
Chip Rank

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#### Typical Electro-Optical Characteristics Curves





EVERLIGHT ELECTRONICS CO.,LTD.

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### Light Emitting Diode (5 mm Round LED,T-1 3/4)

## 7343-2USOC/S400-AX

#### Label Form Specification

|                                                                                        |      |
|----------------------------------------------------------------------------------------|------|
| <div>EVERLIGHT</div>                                                                   |      |
| CPN:                                                                                   |      |
| P/N:                                                                                   |      |
|  RoHS |      |
| 7343USOC/S400-AX                                                                       |      |
| QTY :                                                                                  | CAT: |
|       | HUE: |
| LOT NO :                                                                               | REF: |
|       |      |
| MADE IN TAIWAN                                                                         |      |

CPN: Customer's Production Number

P/N : Production Number

QTY: Packing Quantity

CAT: Ranks of Luminous and Forward Voltage

HUE: Ranks of Dominant 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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