

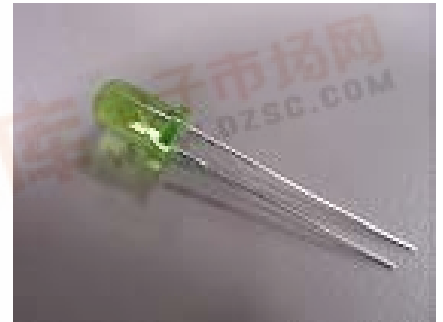


Technical Data Sheet

7344/V2T3-ASVA

Features

- Popular T-1 3/4package.
- High efficiency.
- General purpose leads.
- Selected minimum intensities.
- Available on tape and reel.
- The product itself will remain within RoHS compliant version.
- ESD-withstand voltage: up to 4K V



Descriptions

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

Applications

- Status indicators.
- Commercial use.
- Advertising Signs.
- Back lighting.

Device Selection Guide

| LED Part No. | Chip | | Lens Color |
|----------------|----------|------------------|-------------|
| | Material | Emitted Color | |
| 7344/V2T3-ASVA | InGaN | Super Blue Green | Green Trans |

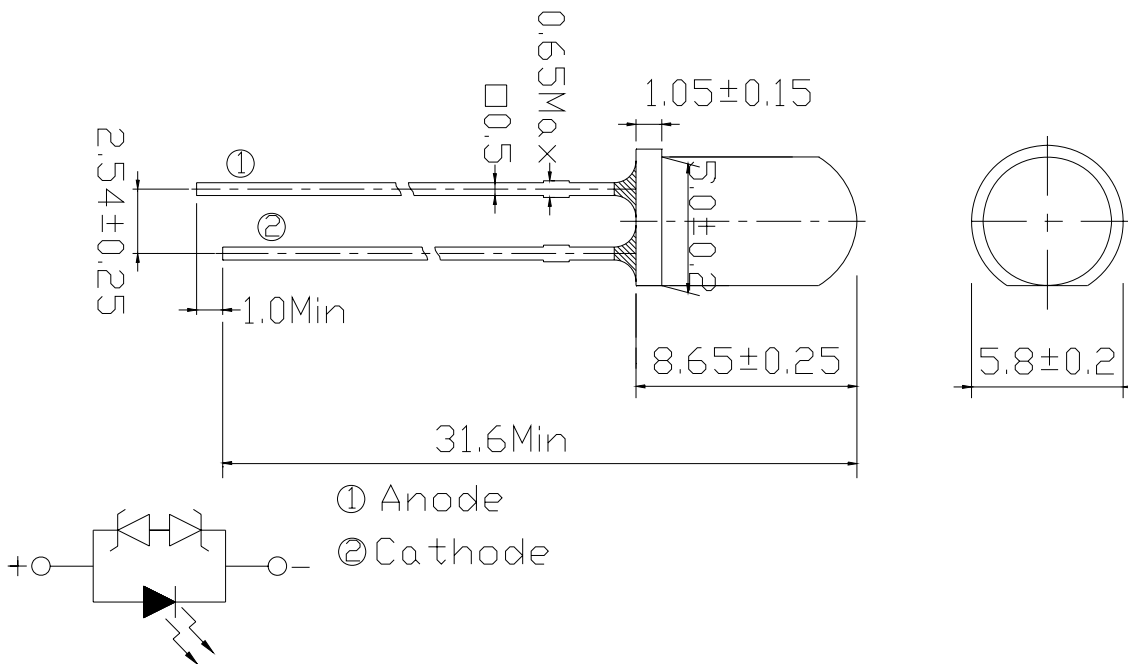




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Package Dimensions



Notes:

- Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Protruded resin under flange is 1.5mm Max LED.
- Bare copper alloy is exposed at tie-bar portion after cutting.

Absolute Maximum Rating ($T_a=25^{\circ}\text{C}$)

| Parameter | Symbol | Absolute Maximum Rating | Unit |
|---|-----------|-------------------------|--------------------|
| Forward Current | I_F | 30 | mA |
| Pulse Forward Current (Duty 1/10@ 1KHz) | I_{FP} | 100 | mA |
| Operating Temperature | T_{opr} | -40 ~ +85 | $^{\circ}\text{C}$ |
| Reverse Voltage | V_R | 5 | V |
| Storage Temperature | T_{stg} | -40 ~ +100 | $^{\circ}\text{C}$ |
| Electrostatic Discharge | ESD | 4K | V |
| Soldering Temperature | T_{sol} | 260 ± 5 | $^{\circ}\text{C}$ |
| Power Dissipation | P_d | 110 | mW |
| Zener Reverse Current | I_Z | 100 | mA |

Notes: Soldering time ≤ 5 seconds.



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Electro-Optical Characteristics ($T_a=25^\circ\text{C}$)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|-----------------------|-----------------|------|------|------|---------------|-------------------|
| Radiometric Intensity | I_V | 5650 | 7150 | ---- | mcd | $I_F=20\text{mA}$ |
| Viewing Angle | $2\theta_{1/2}$ | ---- | 30 | ---- | deg | |
| Peak Wavelength | λ_p | ---- | 502 | ---- | nm | |
| Dominant Wavelength | λ_d | ---- | 505 | ---- | | |
| Spectrum Half width | $\Delta\lambda$ | ---- | 35 | ---- | | |
| Forward Voltage | V_F | ---- | 3.2 | 3.6 | V | |
| Reverse Current | I_R | ---- | ---- | 50 | μA | $V_R=5\text{V}$ |
| Zener Reverse Voltage | V_Z | 5.2 | ---- | ---- | V | $I_Z=5\text{mA}$ |

Rank Combination ($I_F=20\text{mA}$)

| Rank | S | T | U | V |
|--------------------|-----------|-----------|------------|-------------|
| Luminous Intensity | 5650~7150 | 7150~9000 | 9000~11250 | 11250~14250 |

*Measurement Uncertainty of Luminous Intensity: $\pm 15\%$

Unit: :mcd

| Rank | A | | | |
|-----------------|---------|---------|---------|---------|
| Forward Voltage | 2.8~3.0 | 3.0~3.2 | 3.2~3.4 | 3.4~3.6 |

*Measurement Uncertainty of Forward Voltage: $\pm 0.1\text{V}$

Unit: V

| Rank | 2 | 3 | 4 |
|---------------------|---------|---------|---------|
| Dominant Wavelength | 498~503 | 503~508 | 508~513 |

*Measurement Uncertainty of Dominant Wavelength $\pm 1.0\text{nm}$

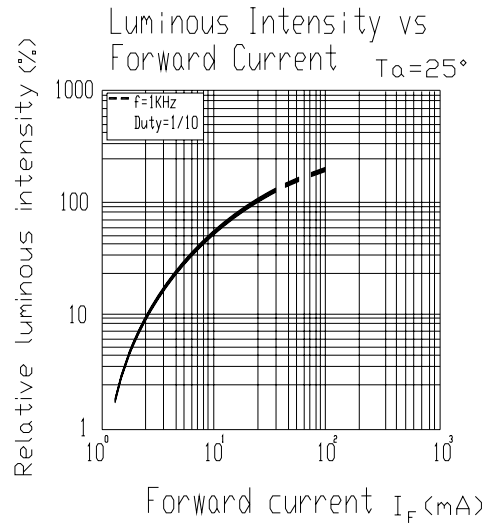
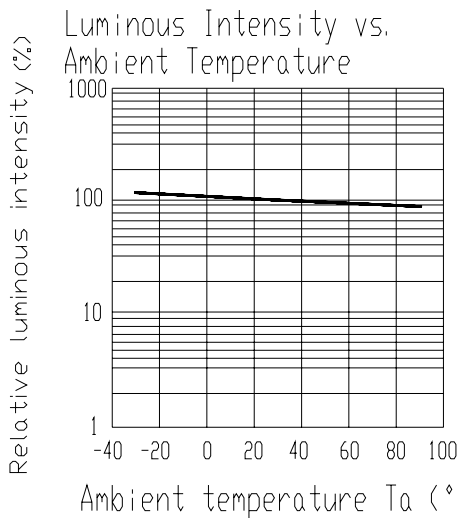
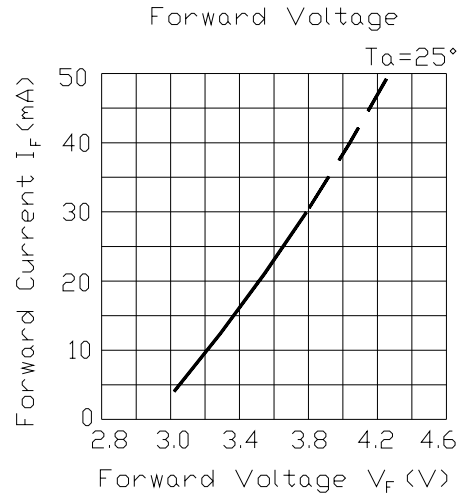
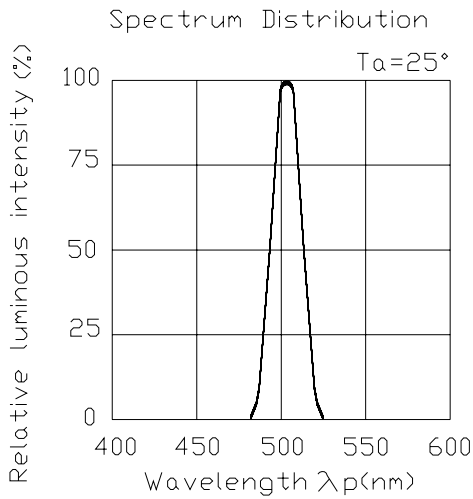
Unit: nm



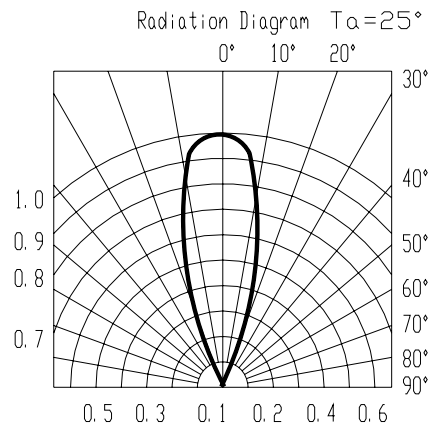
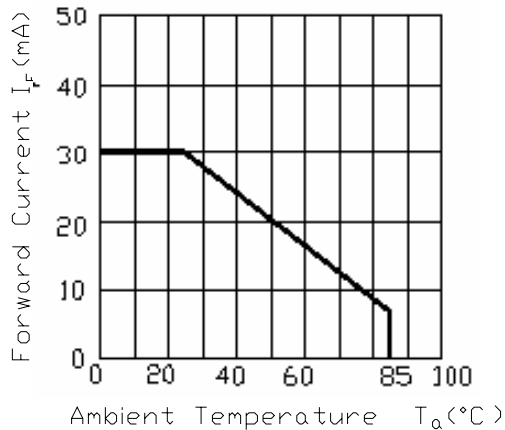
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Typical Electro-Optical Characteristics Curves



Forward Current Derating Curve





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Packing Quantity Specification

1.500PCS/1Bag , 5Bags/1Box

2.10Boxes/1Carton

Label Form Specification

| | |
|------------------|-------------|
| EVERLIGHT | |
| CPN: | |
| P/N: | RoHS |
| 7344/V2T3-ASVA | |
| 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

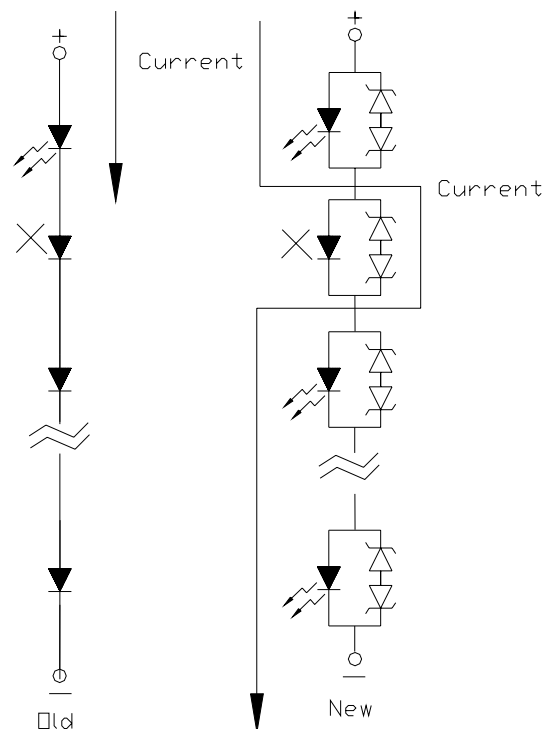


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Notes

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.
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.
4. When the LED is connected using serial circuit, if either piece of LED is no light up but current can't flow through causing others to light down. In new design, the LED is parallel with zener diode. if either piece of LED is no light up but current can flow through causing others to light up.



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