



Technical Data Sheet

264-7USOC/S530-A3

Features

- Popular T-1 package.
- High efficiency.
- General purpose leads.
- Selected minimum intensities.
- Available on tape and reel.
- 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.
- Superior performance in outdoor environment

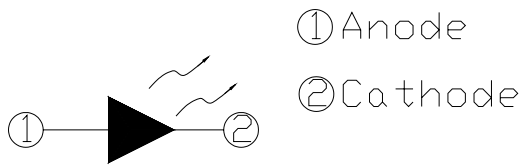
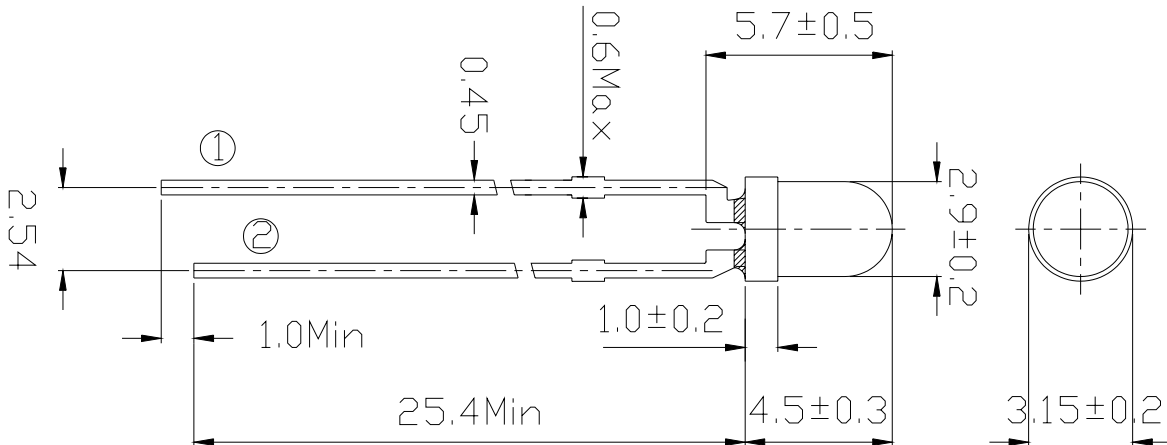
Applications

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

Device Selection Guide

| LED Part No. | Chip | | Lens Color |
|-------------------|----------|---------------------|-------------|
| | Material | Emitted Color | |
| 264-7USOC/S530-A3 | AlGaInP | Super Sunset Orange | Water Clear |

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 | 25 | mA |
| Pulse Forward Current (Duty 1/10 @ 1KHz) | I_{FP} | 60 | mA |
| Operating Temperature | T_{opr} | -40 ~ +85 | $^\circ\text{C}$ |
| Storage Temperature | T_{stg} | -40 ~ +100 | $^\circ\text{C}$ |
| Electrostatic Discharge | ESD | 2000 | V |
| Soldering Temperature | T_{sol} | 260 \pm 5 | $^\circ\text{C}$ |
| Power Dissipation | P_d | 60 | mW |
| Reverse Voltage | V_R | 5 | V |

Notes: Soldering time \leq 5 seconds.



Technical Data Sheet

264-7USOC/S530-A3

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

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|---------------------|-----------------|------|------|------|---------------|-------------------|
| Luminous Intensity | I_V | --- | 13 | 125 | mcd | $I_F=2\text{mA}$ |
| | | 120 | 210 | 800 | | $I_F=20\text{mA}$ |
| Viewing Angle | $2\theta_{1/2}$ | --- | 40 | --- | deg | $I_F=20\text{mA}$ |
| Peak Wavelength | λ_p | -- | 621 | --- | nm | |
| Dominant Wavelength | λ_d | --- | 615 | --- | | |
| Spectrum Half width | $\Delta\lambda$ | --- | 18 | --- | | |
| Forward Voltage | V_F | --- | 2.0 | 2.4 | V | |
| Reverse Current | I_R | --- | --- | 10 | μA | $V_R=5\text{V}$ |

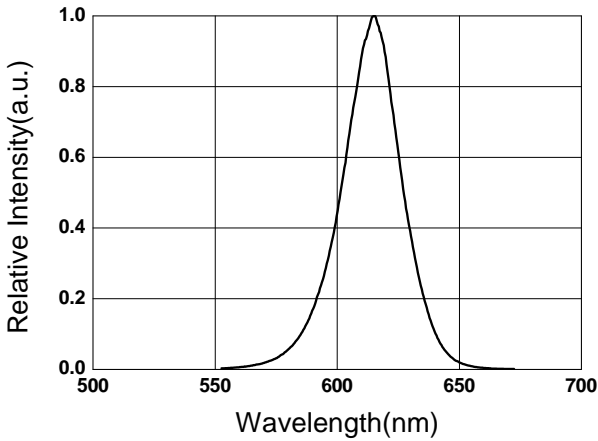


Technical Data Sheet

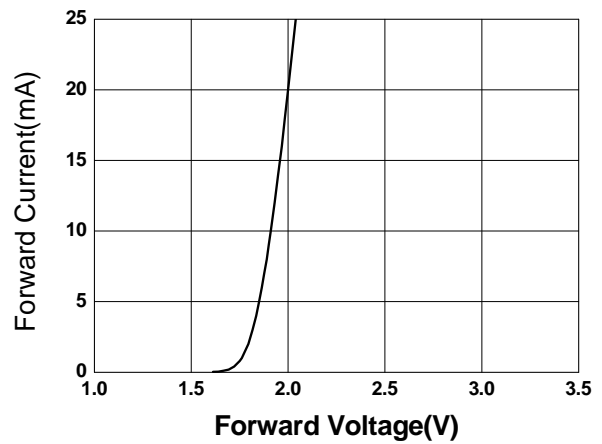
264-7USOC/S530-A3

Typical Electro-Optical Characteristics Curves

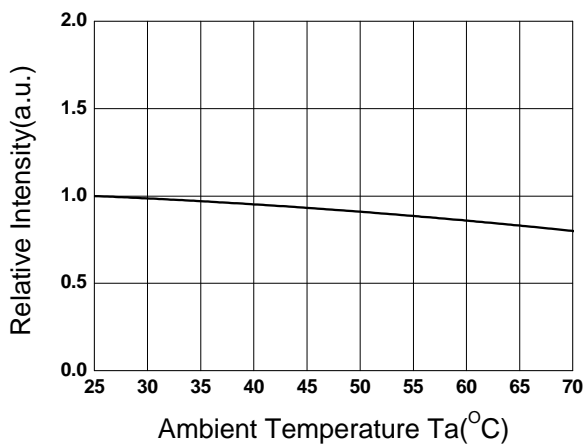
Relative Intensity vs. Wavelength



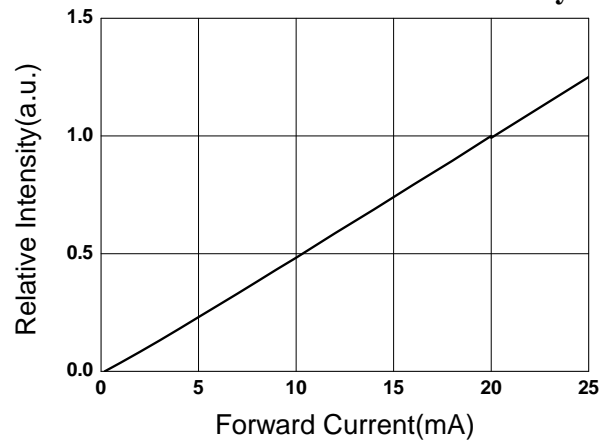
Forward Current vs. Forward Voltage



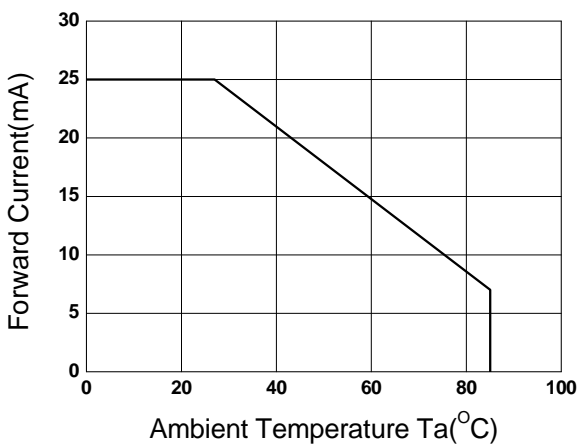
Relative Intensity vs. Ambient Temp



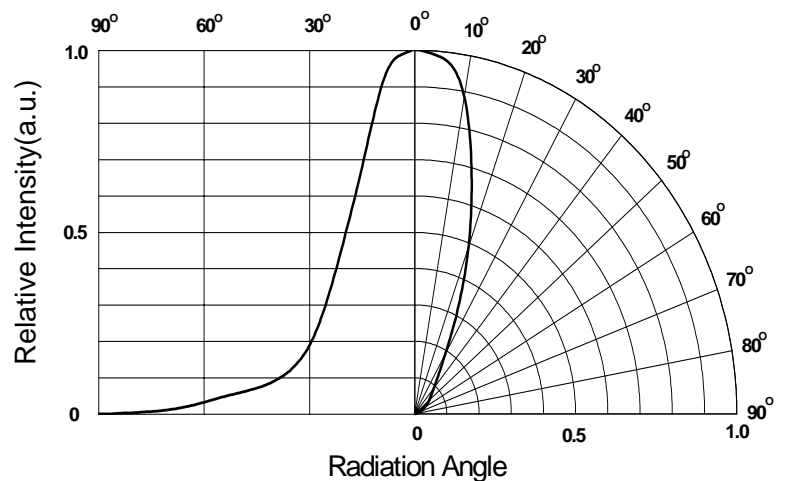
Forward Current vs. Relative Intensity



Forward Current vs. Ambient Temp.



Radiation Characteristics

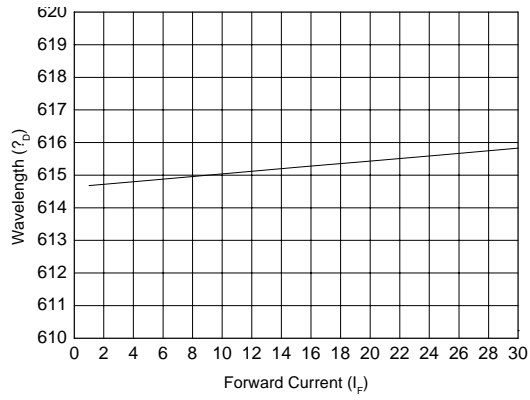




Technical Data Sheet

264-7USOC/S530-A3

Forward Current vs Wavelength





Technical Data Sheet

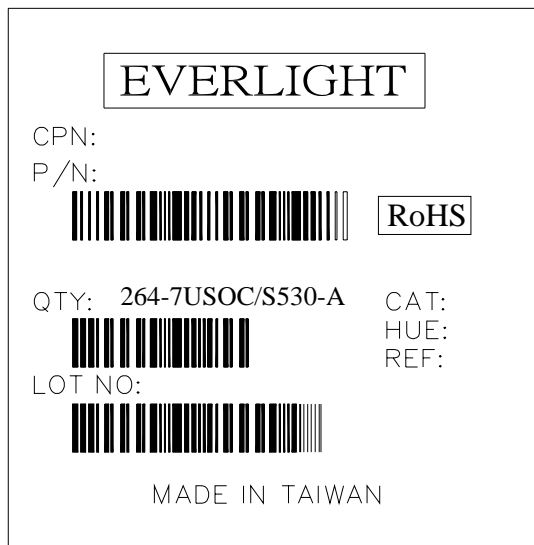
264-7USOC/S530-A3

Packing Quantity Specification

1.1000PCS/1Bag , 4Bags/1Box

2.10Boxes/1Carton

Label Form Specification



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.
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.

EVERLIGHT ELECTRONICS CO., LTD.

Office: No 25, Lane 76, Sec 3, Chung Yang Rd,
Tucheng, Taipei 236, Taiwan, R.O.C

Tel: 886-2-2267-2000, 2267-9936

Fax: 886-2267-6244, 2267-6189, 2267-6306

<http://www.everlight.com>