

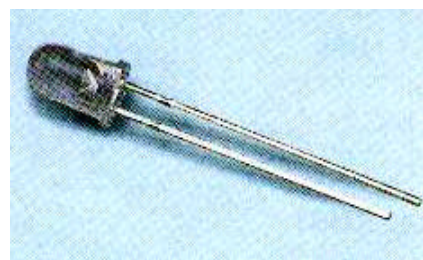


Technical Data Sheet

383-2SURC/S400-AX

Features

- Popular T-1 3/4package.
- High efficiency.
- General purpose leads.
- Selected minimum intensities.
- Available on tape and reel.
- Pb free



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

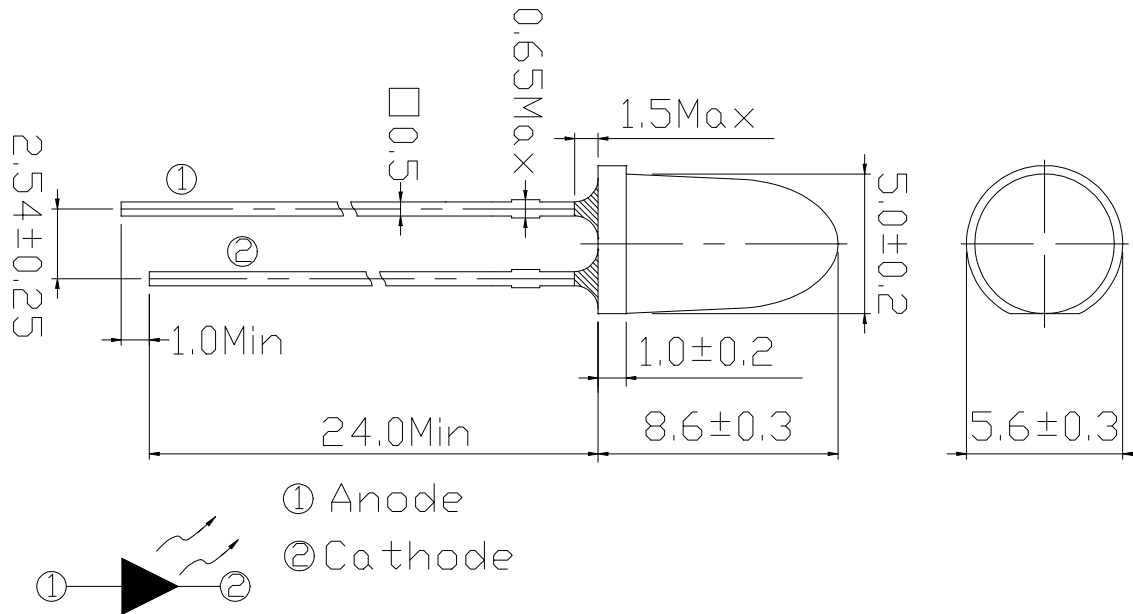
Applications

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

Device Selection Guide

| LED Part No. | Chip | | Lens Color |
|-------------------|----------|---------------|-------------|
| | Material | Emitted Color | |
| 383-2SURC/S400-A6 | AlGaInP | Hyper Red | Water Clear |
| 383-2SURC/S400-A7 | | | |
| 383-2SURC/S400-A8 | | | |

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)

| Parameter | Symbol | Absolute Maximum Rating | Unit |
|--|------------------|-------------------------|------|
| Forward Current | I _F | 50 | mA |
| Pulse Forward Current (Duty 1/10 @ 1KHz) | I _{FP} | 100 | mA |
| Operating Temperature | T _{opr} | -40 ~ +85 | |
| Storage Temperature | T _{stg} | -40 ~ +100 | |
| Electrostatic Discharge | ESD | 2000 | V |
| Soldering Temperature | T _{sol} | 260 ±5 | |
| Power Dissipation | P _d | 120 | mW |
| Reverse Voltage | V _R | 5 | V |

Notes: Soldering time 5 seconds.

Electro-Optical Characteristics (T_a=25)

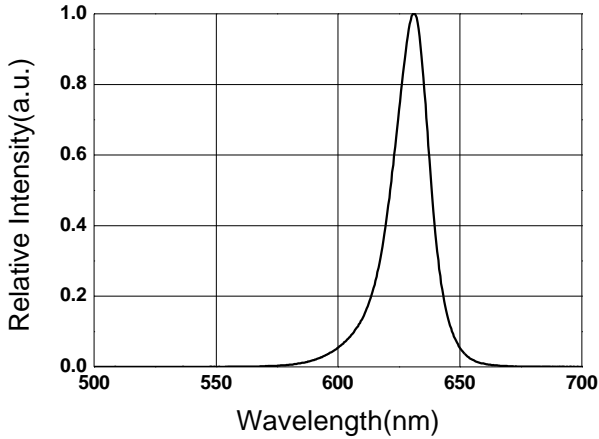
| Parameter | Symbol | *Chip Rank | Min. | Typ. | Max. | Unit | Condition |
|---------------------|----------------|------------|------|-------|------|------|----------------------|
| Luminous Intensity | I _V | A6 | 4000 | 6300 | -- | mcd | I _F =20mA |
| | | A7 | 5000 | 8000 | -- | | |
| | | A8 | 6300 | 10000 | -- | | |
| Viewing Angle | 2 1/2 | -- | -- | 6 | -- | deg | |
| Peak Wavelength | p | -- | -- | 624 | -- | nm | |
| Dominant Wavelength | d | -- | -- | 631 | -- | | |
| Spectrum Half width | | -- | -- | 20 | -- | | |
| Forward Voltage | V _F | -- | -- | 2.0 | 2.4 | V | |
| Reverse Current | I _R | -- | -- | -- | 10 | μ A | V _R =5V |

***383-2SURC/S400-AX**

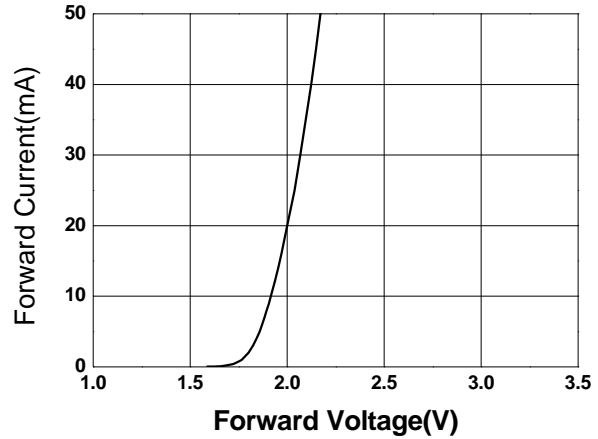


Typical Electro-Optical Characteristics Curves

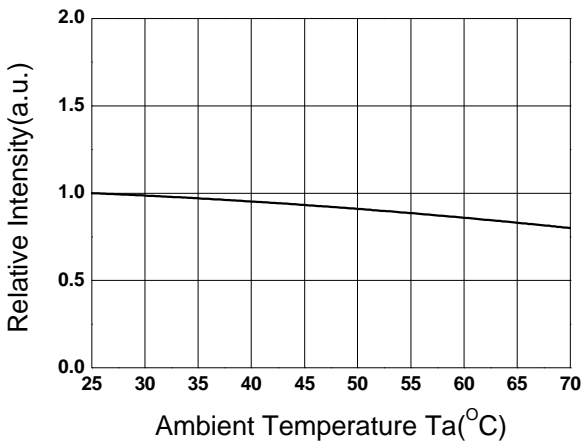
Relative Intensity vs. Wavelength



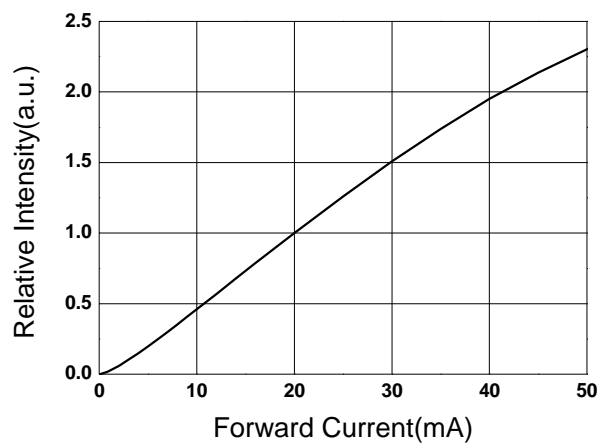
Forward Current vs. Forward Voltage



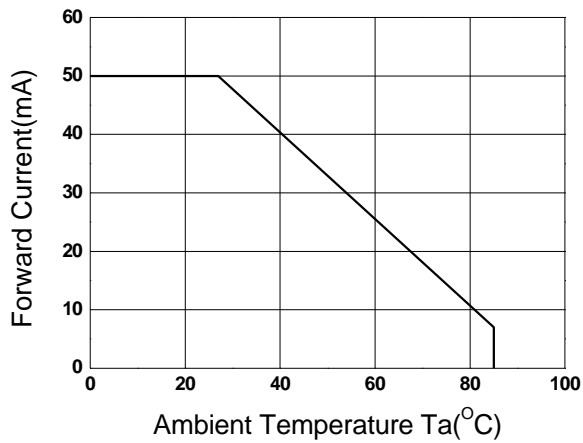
Relative Intensity vs. Ambient Temp



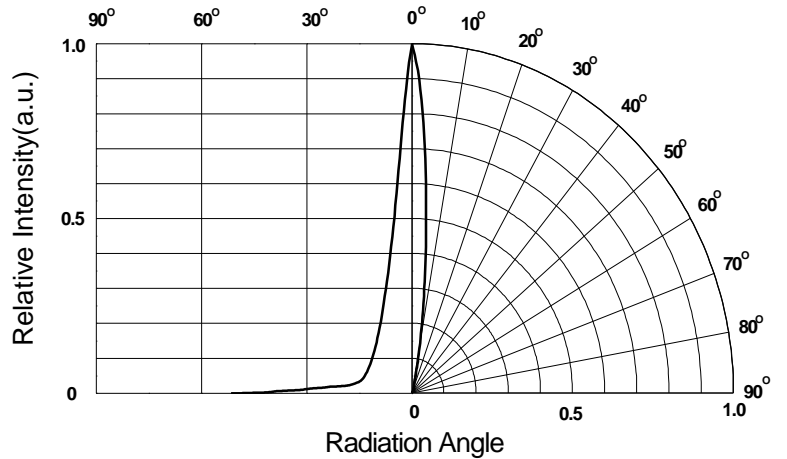
Forward Current vs. Relative Intensity



Forward Current vs. Ambient Temp.



Radiation Characteristics





383-2SURC/S400-AX

Packing Quantity Specification

1.500PCS/1Bag , 5Bags/1Box

2.10Boxes/1Carton

Label Form Specification

| | |
|-------------------|------|
| | |
| CPN: | |
| P/N: | |
| | |
| 383-2SURC/S400-AX | |
| QTY : | CAT: |
| | HUE: |
| LOT NO : | REF: |
| | |
| MADE IN TAIWAN | |

CPN: Customer's Production Number

P/N : Production Number

383-2SURC/S400-AX:Production name

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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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>

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