



Technical Data Sheet

7343USRC/TL

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.

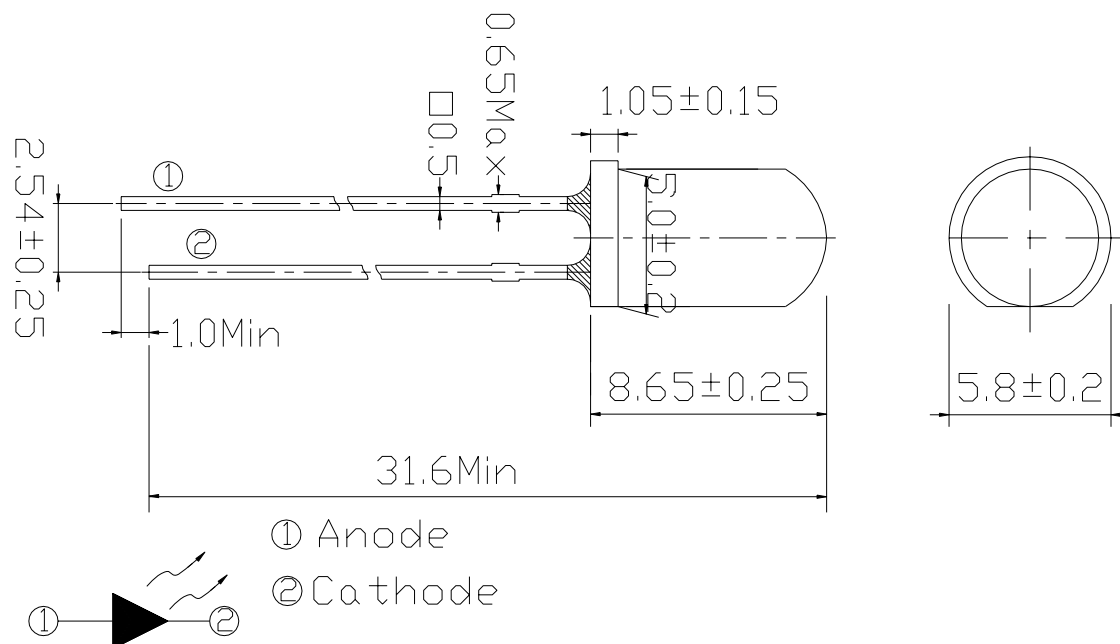
Applications

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

Device Selection Guide

| LED Part No. | Chip | | Lens Color |
|--------------|----------|---------------|-------------|
| | Material | Emitted Color | |
| 7343USRC/TL | AlGaInP | Super Red | Water Clear |

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(Duty 1/10 @ 1kHz) ^{*1} | I_{FP} | 100 | mA |
| Operating Temperature | T_{opr} | -40 ~ +85 | °C |
| Storage Temperature | T_{stg} | -40 ~ +100 | °C |
| LED Junction Temperature | T_{jmax} | 125 | °C |
| Electrostatic Discharge | ESD | 2000 | V |
| Soldering Temperature ^{*2} | T_{sol} | 260 \pm 5 | °C |
| Through-the-Wave Preheat Temperature | ---- | 145 | °C |
| Power Dissipation | P_d | 100 | mW |
| Reverse Voltage | V_R | 5 | V |

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

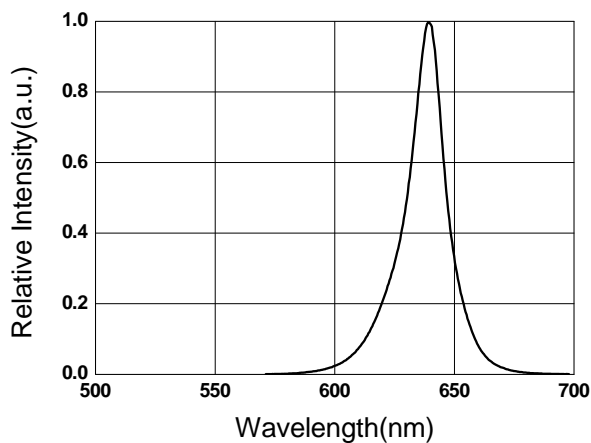
*2:Soldering time ≤ 5 seconds.

Electro-Optical Characteristics (Ta=25°C)

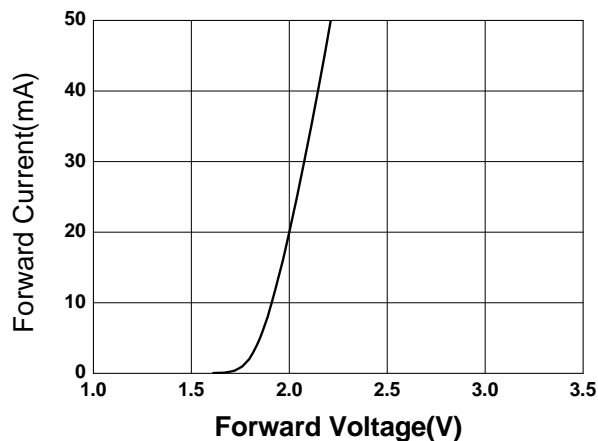
| Parameter | Symbol | Condition | Min. | Typ. | Max. | Units |
|------------------------------|-----------------|-------------------|------|------|------|---------------|
| Forward Voltage | V_F | $I_F=20\text{mA}$ | -- | 2.0 | 2.6 | V |
| Reverse Current | I_R | $V_R=5\text{V}$ | -- | -- | 10 | μA |
| Radiant Intensity | I_V | $I_F=20\text{mA}$ | 1800 | 2500 | -- | mcd |
| Viewing Angle | $2\theta_{1/2}$ | $I_F=20\text{mA}$ | -- | 30 | -- | deg |
| Peak Wavelength | λ_p | $I_F=20\text{mA}$ | -- | 639 | -- | nm |
| Dominant Wavelength | λ_d | $I_F=20\text{mA}$ | -- | 631 | -- | nm |
| Spectrum Radiation Bandwidth | $\Delta\lambda$ | $I_F=20\text{mA}$ | -- | 20 | -- | nm |

Typical Electro-Optical Characteristics Curves

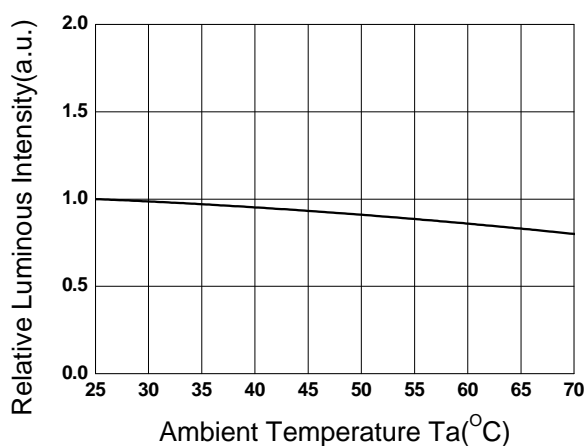
Relative Intensity vs. Wavelength



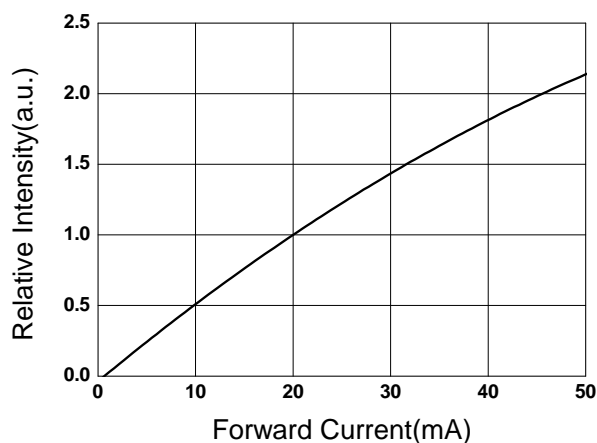
Forward Current vs. Forward Voltage



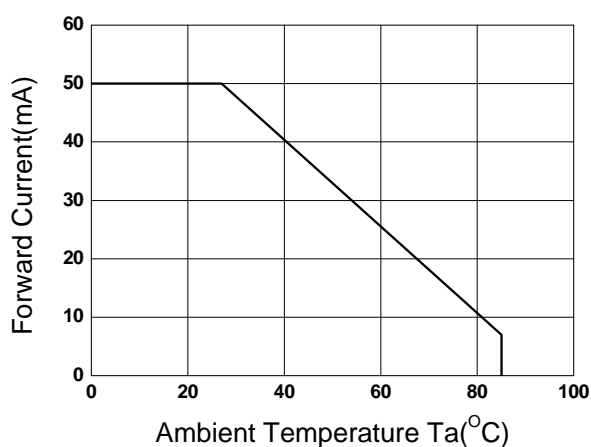
Relative Intensity vs. Ambient Temp



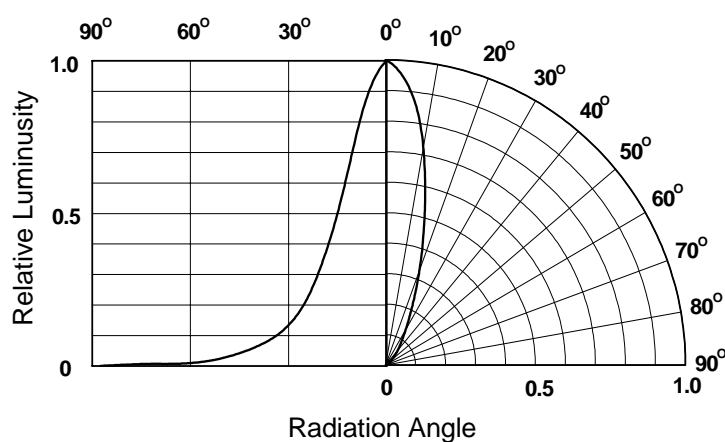
Forward Current vs. Relative Intensity



Forward Current vs. Ambient Temp.



Radiation Characteristics



Packing Quantity Specification

1. 500 PCS/1 Anti ESD Bag
2. 5 Anti ESD Bags /1 Box
3. 10 Boxes/1 Carton

Label Form Specification

| | |
|---|------|
| <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">EVERLIGHT</div> | |
| CPN: | |
| P/N: | |
|  | |
| 7343USRC/TL | |
| QTY : | CAT: |
|  | HUE: |
| LOT NO : | REF: |
|  | |
| MADE IN TAIWAN | |

CPN: Customer's Production Number
P/N : Production Number
7343USRC/TL: 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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