

L365V-66-16100-110 Flat Lens Type UV Light Illuminator

L365V-66-16100-110 is composed of 1.1mm*1.1mm high current drive AlGaIn die by 16pcs and mounted on a metal stem TO-66 and covered with Flat Glass Cap. It is designed for extremely high output power illuminator assembled.

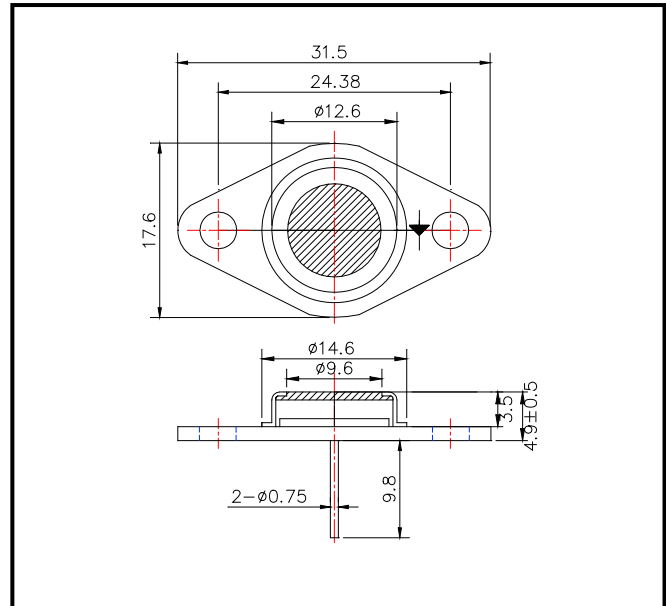
◆Features

- 1) High Current Use
- 2) High Reliability
- 3) High output power at 365nm

◆Specifications

- 1) Product name UV Light Illuminator
- 2) Spec. No. L365V-66-16100-110
- 3) Chip
 - (1) Material AlGaIn
 - (2) Chip Dimension 1.1mm*1.1mm
 - (3) Chip Number 16pieces
 - (4) Peak wavelength 365nm
- 4) Package
 - (1) Stem TO-66 stem
 - (2) Lens Flat Glass cap

◆Outer dimension (Unit: mm)



◆Absolute Maximum Ratings

| Item | Symbol | Maximum Rated Value | Unit | Ambient Temperature |
|-----------------------|------------------|---------------------|------|----------------------|
| Power Dissipation | P _D | 30 | W | T _a =25°C |
| Forward Current | I _F | 2 | A | T _a =25°C |
| Reverse Voltage | V _R | 20 | V | T _a =25°C |
| Operating Temperature | T _{OPR} | -40 ~ +80 | °C | |
| Storage Temperature | T _{STG} | -40 ~ +100 | °C | |
| Soldering Temperature | T _{SOL} | 265 | °C | |

‡Soldering condition: Soldering condition must be completed within 3 seconds at 265°C

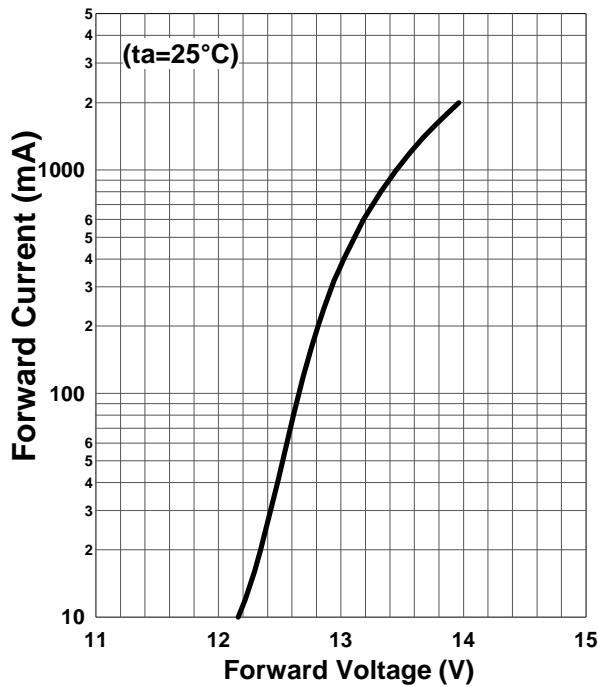
◆Electro-Optical Characteristics [T_a=25°C]

| Item | Symbol | Condition | Minimum | Typical | Maximum | Unit |
|--------------------|-----------------|-----------------------|---------|----------|---------|-------------------|
| Forward Voltage | V _F | I _F =2A | | 14 | | V |
| Radiated Power | P _O | I _F =2A | | 4000 | | mW |
| Radiated Intensity | E _e | I _F =2A | | 6.4 | | W/cm ² |
| Peak Wavelength | λ_P | I _F =2A | 360 | 365 | 370 | nm |
| Half Width | $\Delta\lambda$ | I _F =2A | | 11 | | nm |
| Viewing Half Angle | $\theta_{1/2}$ | I _F =100mA | | ± 52 | | deg. |

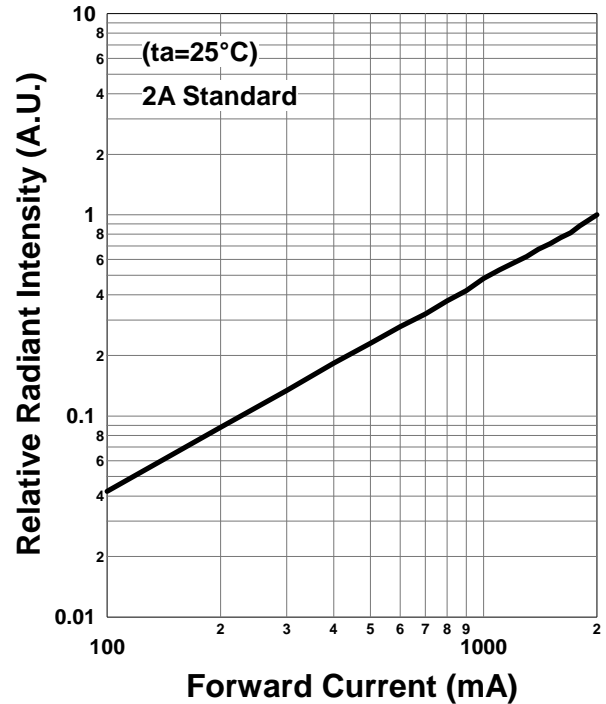
‡Radiated Power is measured by S3584-08.

‡Radiant Intensity is measured by Tektronix J-6512.

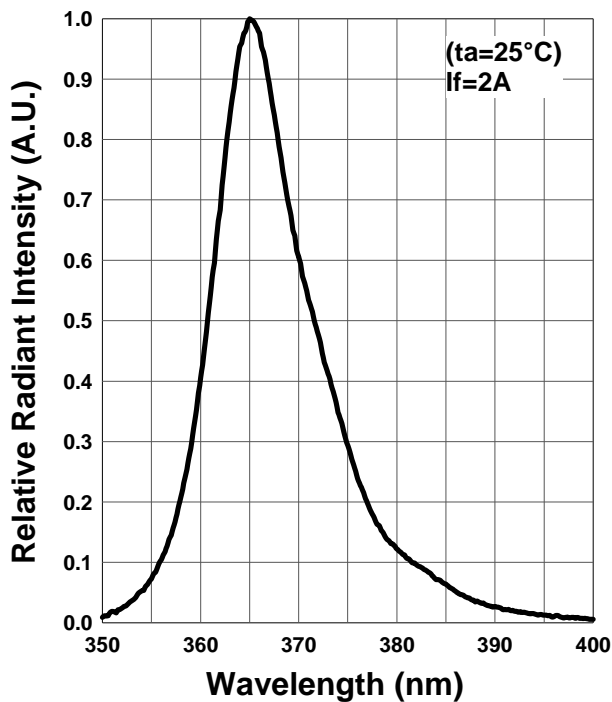
Forward Current - Forward Voltage



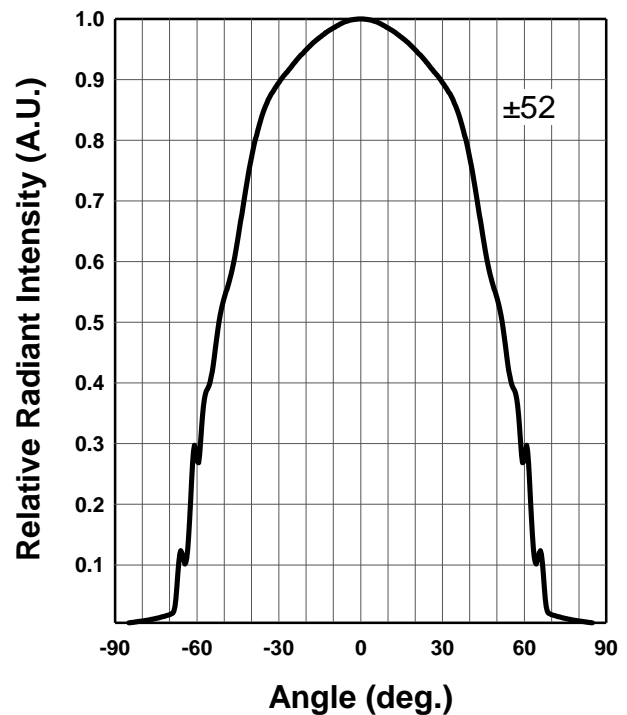
Relative Radiant Intensity - Forward Current



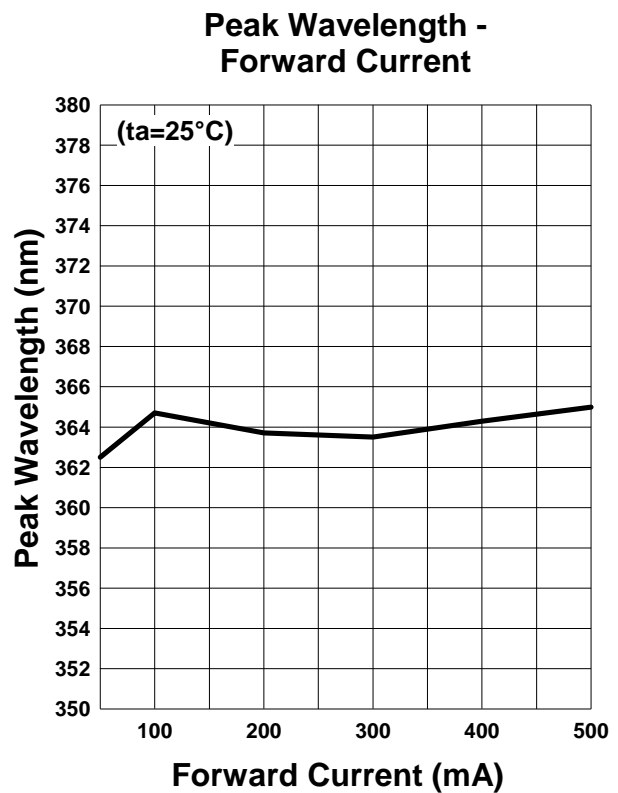
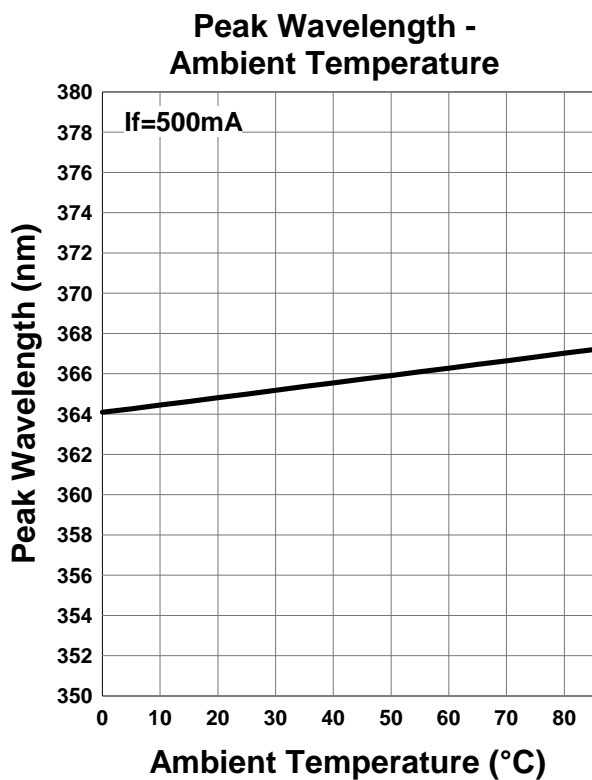
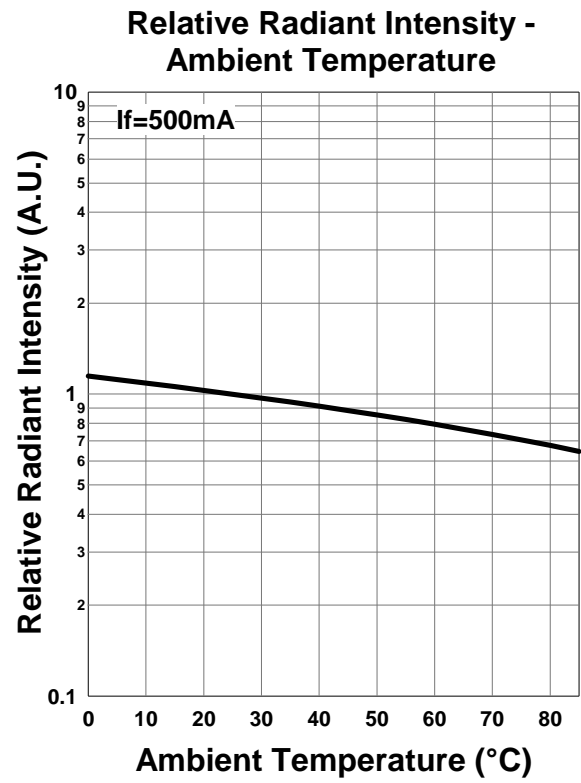
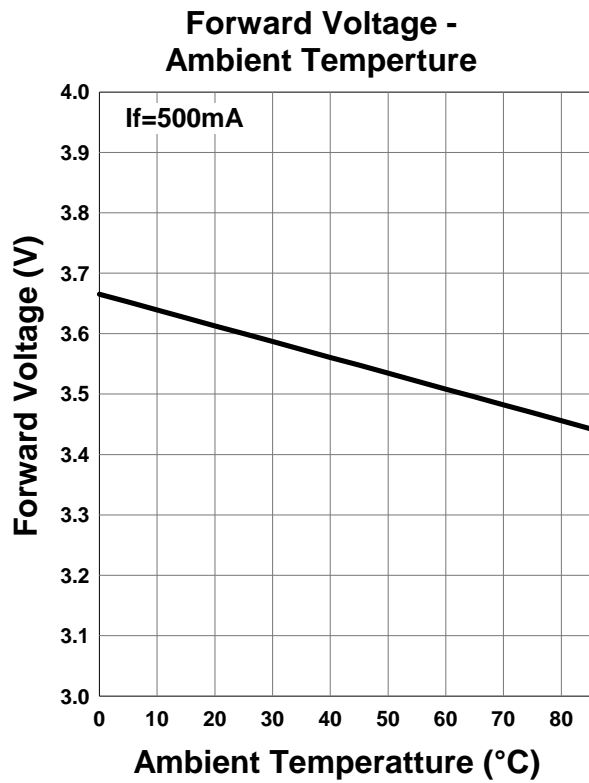
Relative Spectral Emission



Radiation Characteristics



*The data below shows the characteristics of one representative TO-66 chip.



Disclaimer

Product specifications and data shown in this product catalog are subject to change without notice for the purposes of improving product performance, reliability, design, or otherwise.

Product data and parameters in this catalog are typical values based on reasonably up-to-date measurements. Product data and parameters may vary by user application and over time.

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