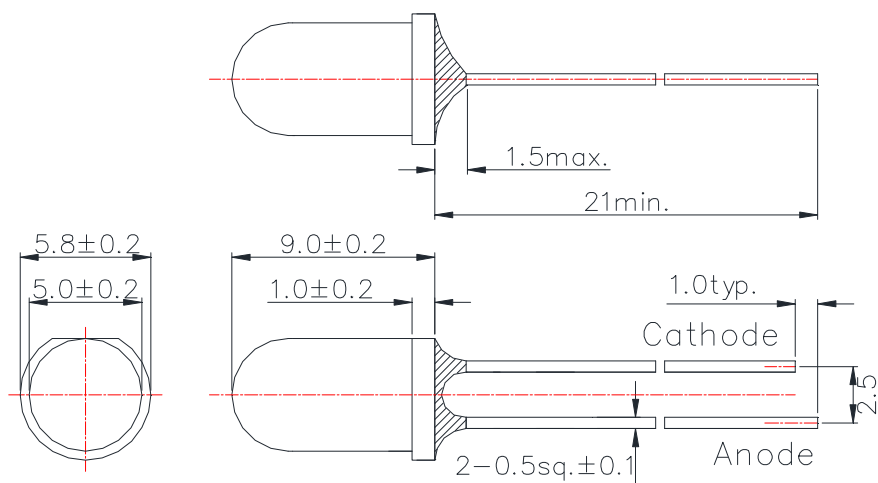


PRELIMINARY

# L395R-01

UV LED Lamp

## Outline and Internal Circuit



(Unit : mm)

## Features

- Chip Material : InGaN
- Chip Dimension : 350um \* 350um
- Number of Chips : 1pce
- Peak Wavelength : 395nm typ.
- Package Type : φ5mm clear molding
- Lead Frame : Soldered (Lead Free)
- Lens : UV Resin

### Absolute Maximum Ratings (Tc=25°C)

| Item                  | Symbol | Ratings    | Unit |
|-----------------------|--------|------------|------|
| Power Dissipation     | PD     | 220        | mW   |
| Forward Current       | IF     | 50         | mA   |
| Pulse Forward Current | IFP    | 100        | mA   |
| Reverse Voltage       | VR     | 5          | V    |
| Thermal Resistance    | Rthja  | 250        | K/W  |
| Junction Temperature  | Tj     | 120        | °C   |
| Operating Temperature | Topr   | -20 ~ +100 | °C   |
| Storage Temperature   | Tstg   | -20 ~ +100 | °C   |
| Soldering Temperature | TSOL   | 265        | °C   |

‡Pulse Forward Current condition : Duty 1% and Pulse Width=10us.

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

### Optical and Electrical Characteristics (Tc=25°C)

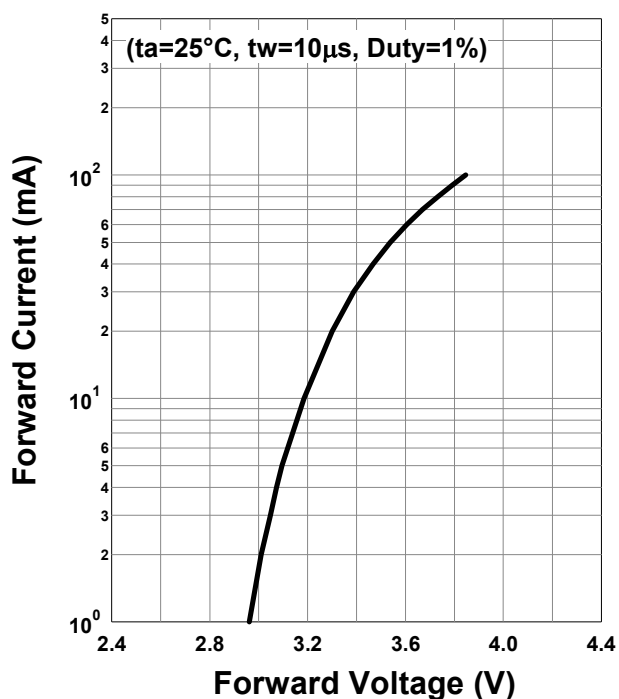
| Parameter            | Symbol | Min | Typ | Max | Unit  | Test Condition |
|----------------------|--------|-----|-----|-----|-------|----------------|
| Forward Voltage      | VF     |     | 3.3 | 4.3 | V     | IF=20mA        |
|                      | VFP    |     | 3.8 |     |       | IFP=100mA      |
| Total Radiated Power | PO     |     | 18  |     | mW    | IF=20mA        |
|                      |        |     | 72  |     |       | IFP=100mA      |
| Radiant Intensity    | IE     |     | 150 |     | mW/sr | IF=20mA        |
|                      |        |     | 600 |     |       | IFP=100mA      |
| Peak Wavelength      | λp     | 390 |     | 400 | nm    | IF=20mA        |
| Half Width           | Δλ     |     | 17  |     | nm    | IF=20mA        |
| Viewing Half Angle   | θ1/2   |     | ±7  |     | deg.  | IF=20mA        |
| Rise Time            | tr     |     | 10  |     | ns    | IF=20mA        |
| Fall Time            | tf     |     | 10  |     | ns    | IF=20mA        |

‡ Radiated Power is measured by S3584-08.

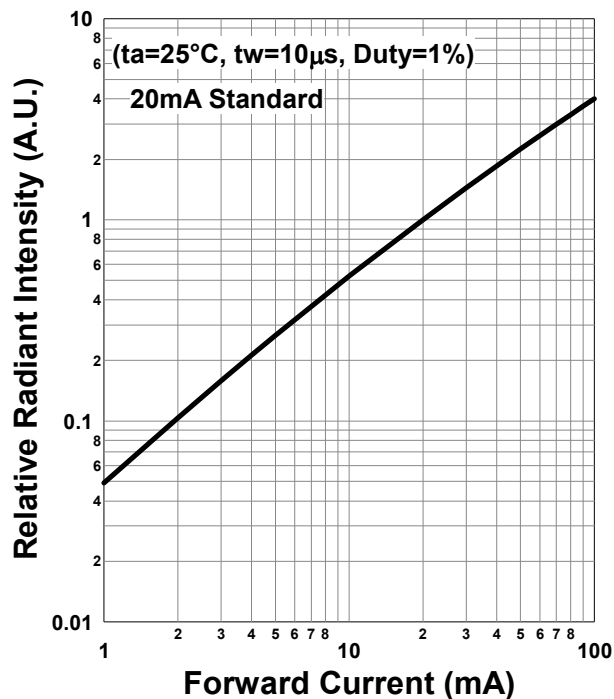
‡ Radiant Intensity is measured by CIE127-2007 Condition B.

## Typical Characteristic Curves

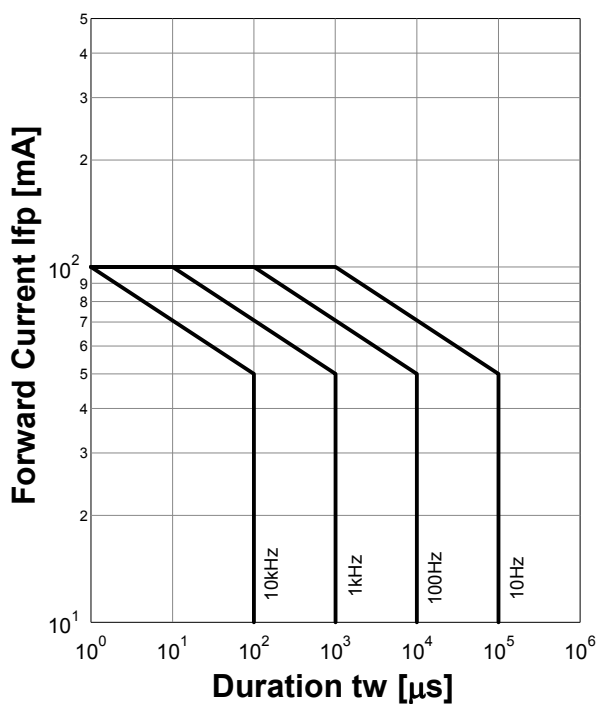
**Forward Current - Forward Voltage**



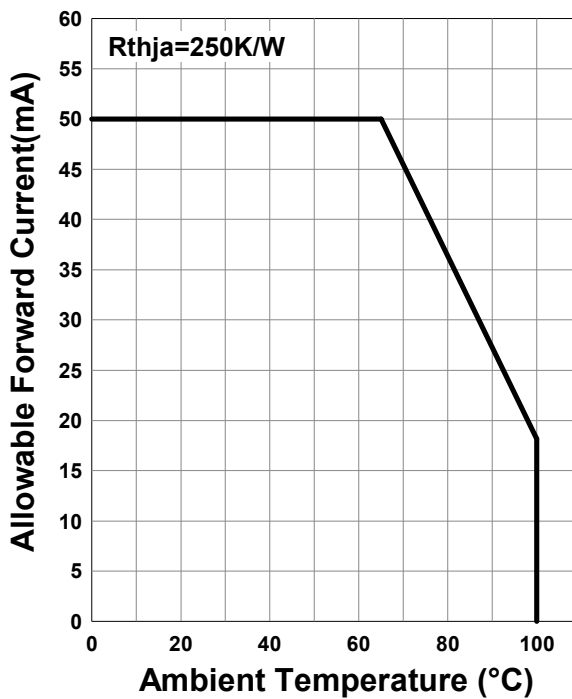
**Relative Radiant Intensity - Forward Current**

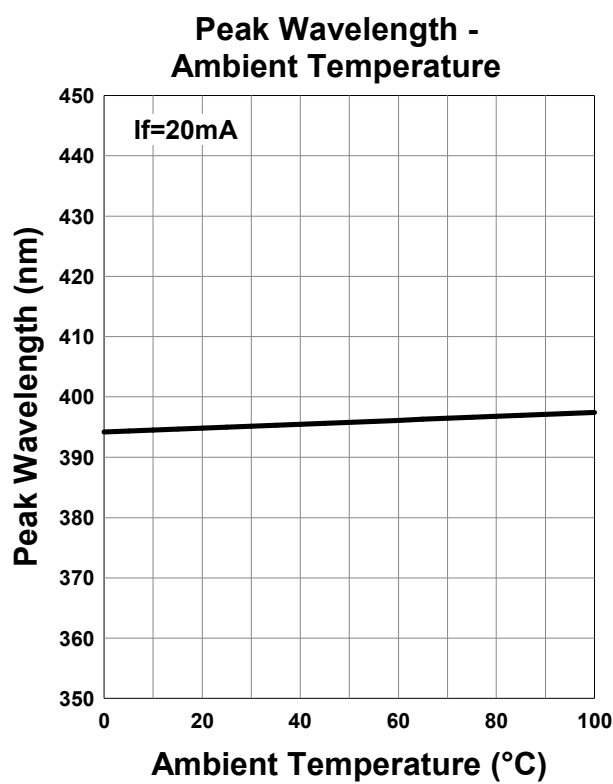
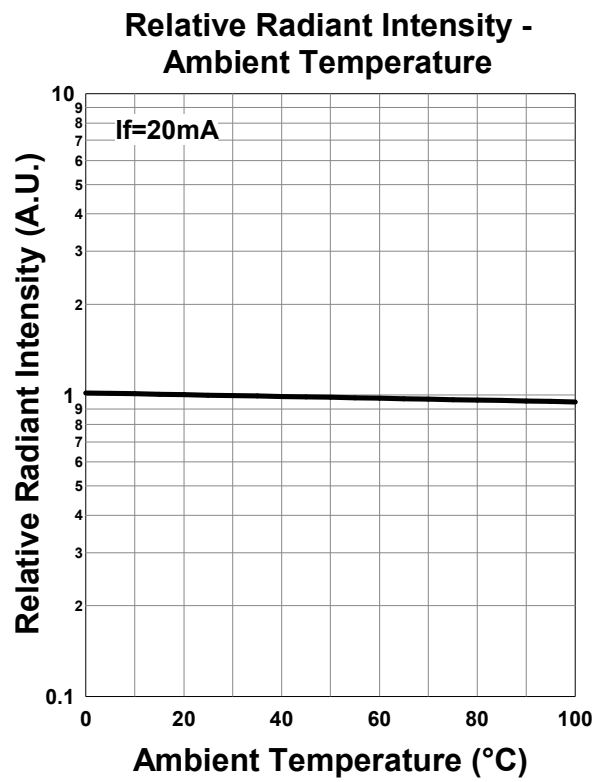
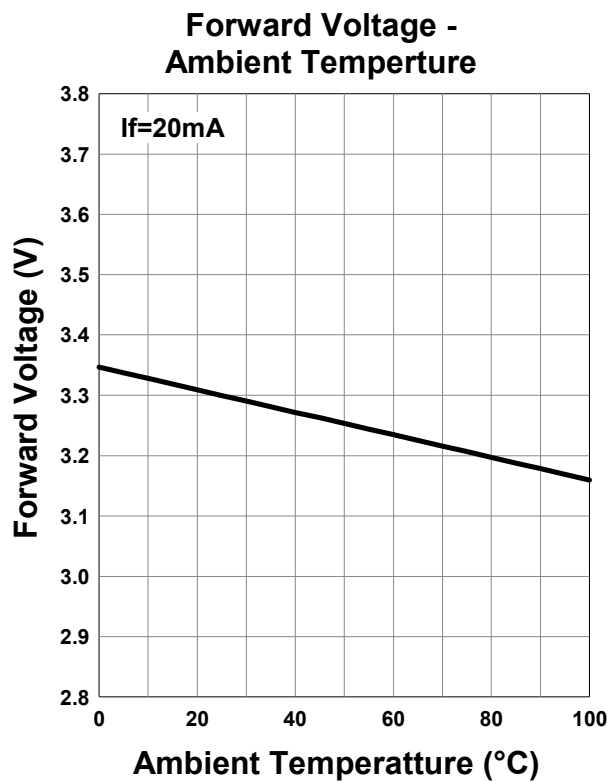


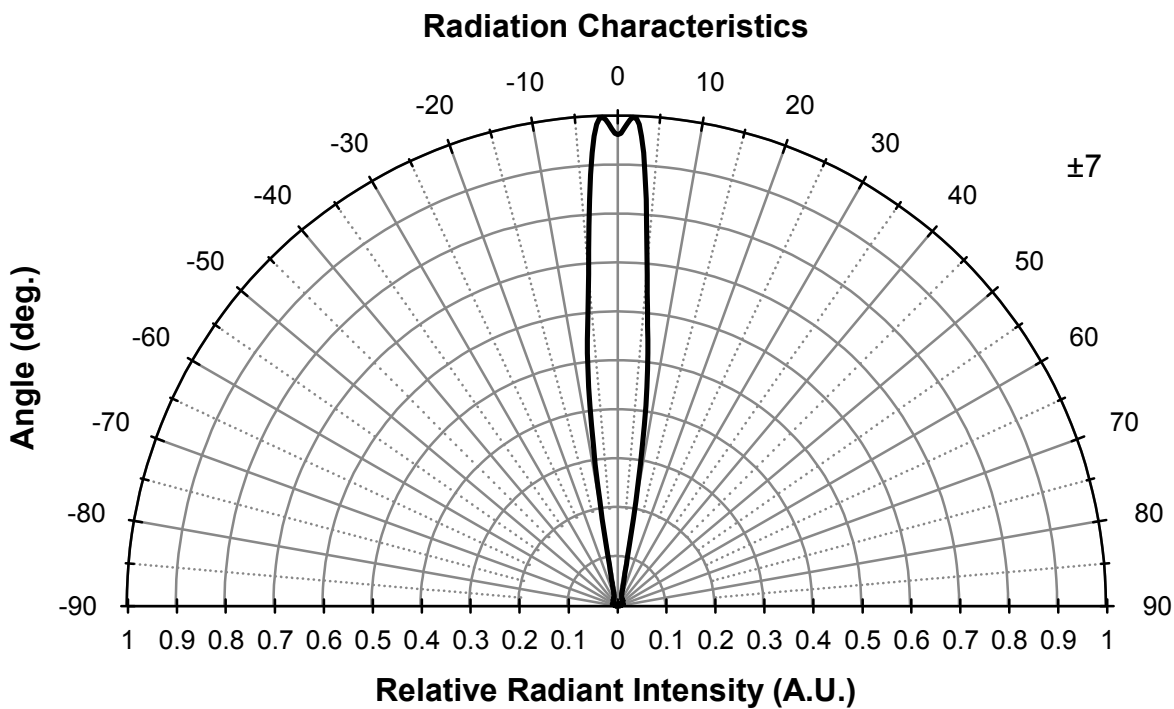
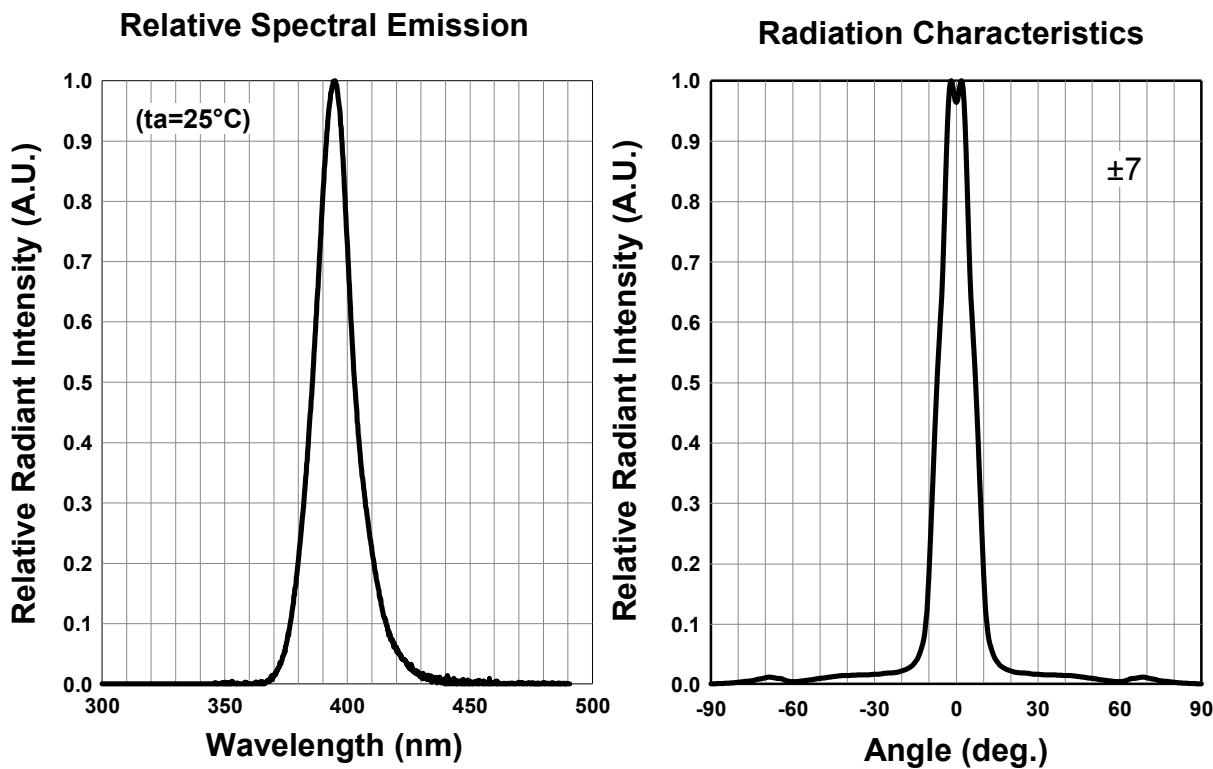
**Forward Current - Pulse Duration**



**Allowable Forward Current - Ambient Temperature**







**Disclaimer**

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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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