

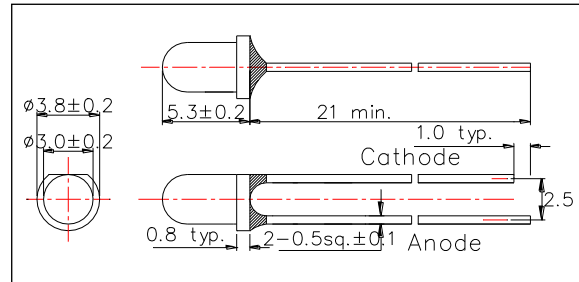
**L375R-33****UV LED Lamp with UV Resistant Resin**

L375R-33 is an AlGaIn LED mounted on a lead frame with UV resistant resin.  
On forward bias, it emits a band of UV light that peaks 375nm.  
This UV series is designed for long life under UV beam.

## &lt;Specifications&gt;

1. Product Name: UV LED Lamp
2. Type Number: L375R-33
3. Chip:
  - Chip material: AlGaIn
  - Peak Wavelength: 375nm typ.
4. Package
  - Type: Φ3mm clear molding
  - Resin Material: Epoxy Resin
  - Lead Frame: Soldered(Lead Free)

## Outer Dimension (Unit:mm)



| Absolute Maximum Ratings[Ta=25°C] |        |                     |      |
|-----------------------------------|--------|---------------------|------|
| Item                              | Symbol | Maximum Rated Value | 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  | 300                 | K/W  |
| Junction Temperature              | Tj     | 120                 | °C   |
| Operating Temperature             | TOPR   | -40 ~ +100          | °C   |
| Storage Temperature               | TSTG   | -40 ~ +100          | °C   |
| Soldering Temperature**           | TSOL   | 250                 | °C   |

\* Duty=1% and Pulse Width=10μs

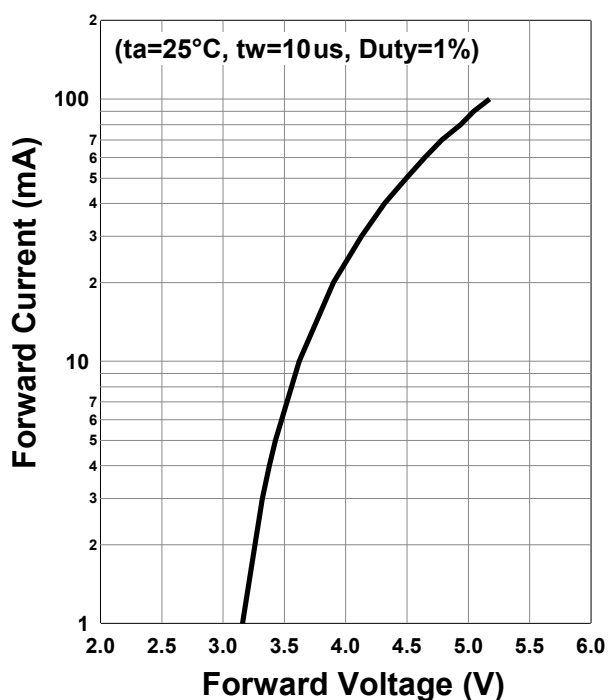
\*\* Soldering condition must be completed within 3 second at 250°C.

| Electro-Optical Characteristics[Ta=25°C] |        |           |         |         |         |      |
|------------------------------------------|--------|-----------|---------|---------|---------|------|
| Item                                     | Symbol | Condition | Minimum | Typical | Maximum | Unit |
| Forward Voltage                          | VF     | IF=20mA   |         | 3.9     | 4.3     | V    |
|                                          | VFP    | IF=100mA  |         | 5.2     |         |      |
| Radiated Power*                          | PO     | IF=20mA   |         | 6.7     |         | mW   |
|                                          |        | IF=100mA  |         | 28      |         |      |
| Peak Wavelength                          | λP     | IF=20mA   | 370     | 375     | 380     | nm   |
| Half Width                               | Δλ     | IF=20mA   |         | 9       |         | nm   |
| Viewing Half Angle                       | θ1/2   | IF=20mA   |         | ±10     |         | deg  |
| Rise Time                                | Tr     | IF=20mA   |         | 50      |         | Ns   |
| Fall Time                                | tf     | IF=20mA   |         | 40      |         | ns   |

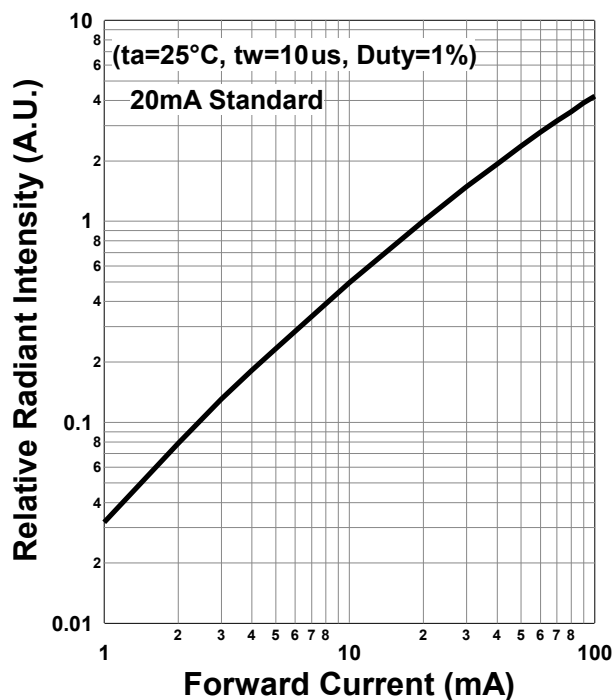
\* Measured by S3584-08



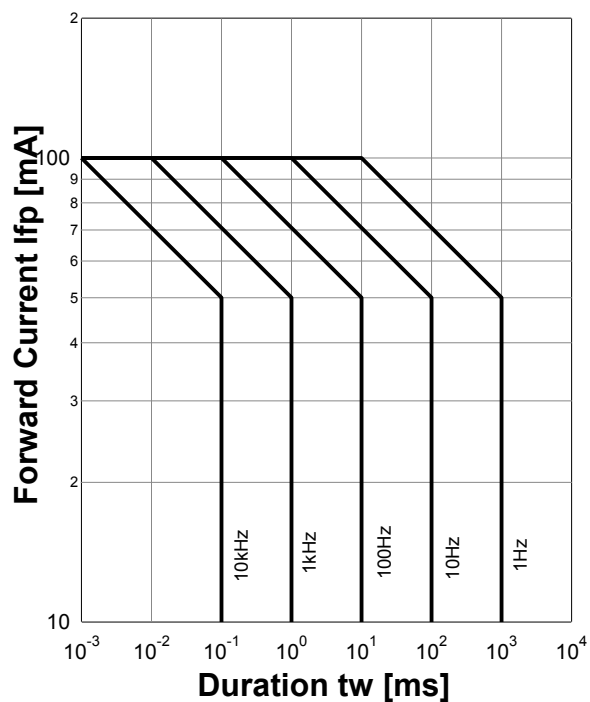
**Forward Current - Forward Voltage**



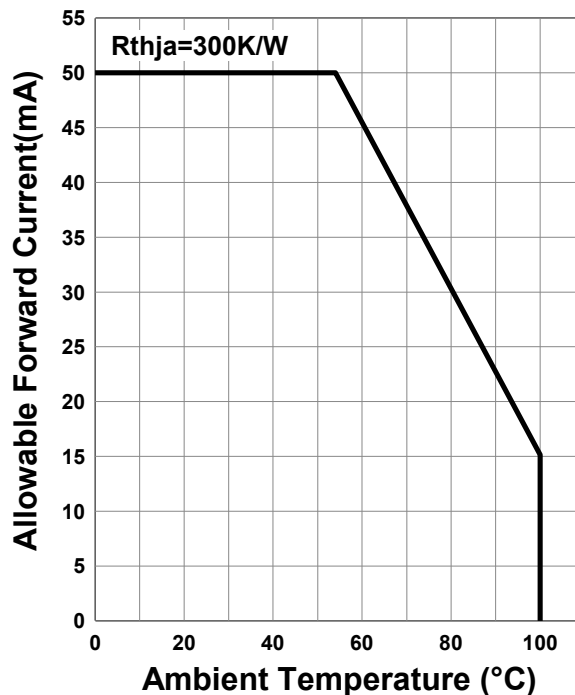
**Relative Radiant Intensity - Forward Current**

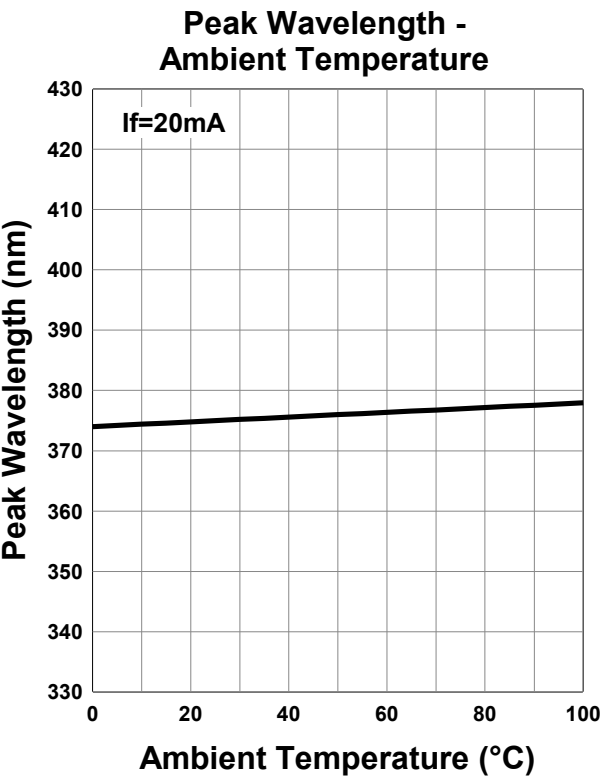
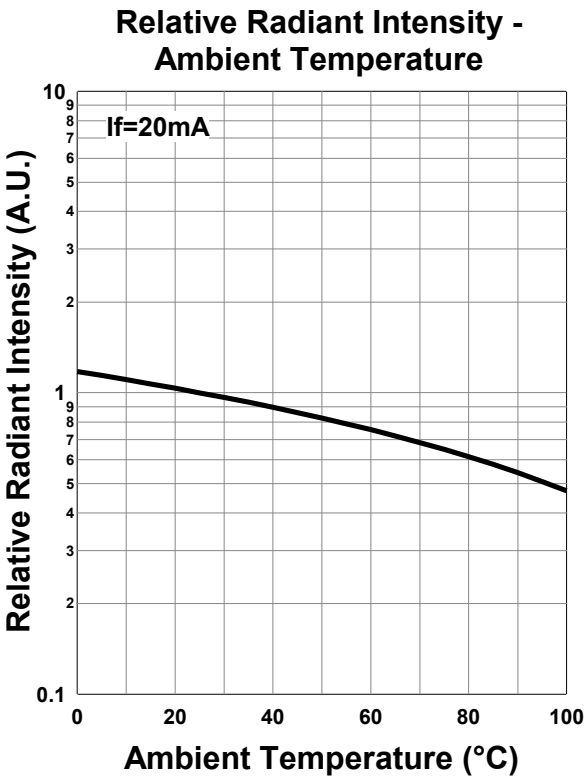
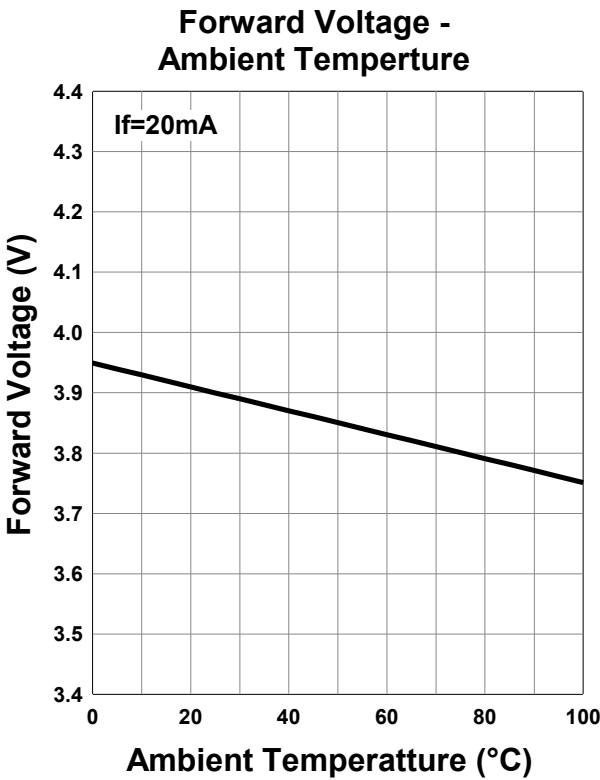


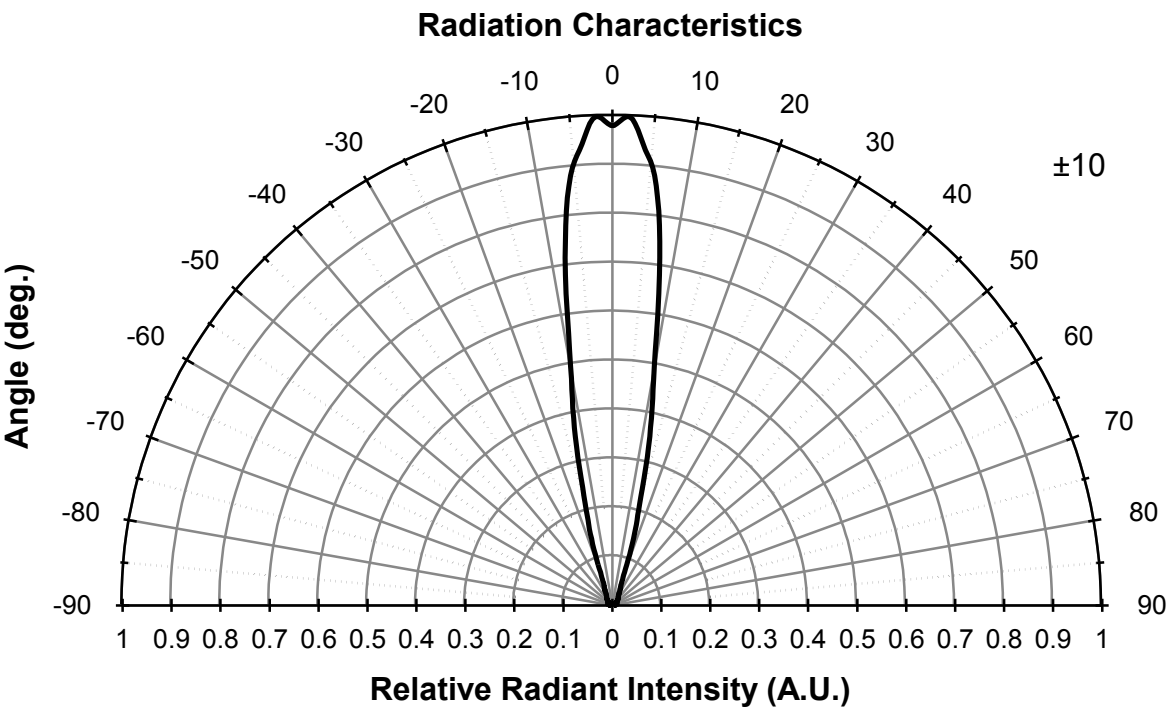
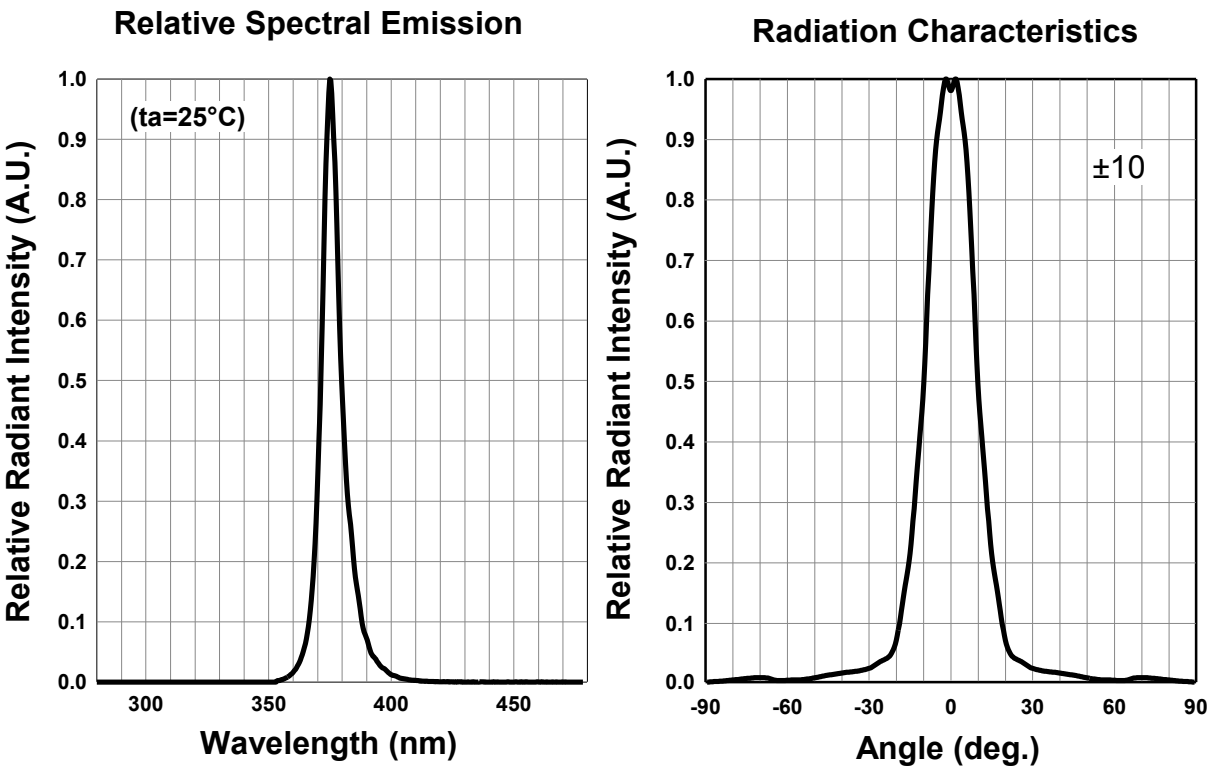
**Forward Current - Pulse Duration**



**Allowable Forward Current - Ambient Temperature**







**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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