

## Peak Emission Wavelength: 365nm

The MT3660 C5-UV is a ultraviolet 3mm water clear LED designed for applications requiring high brightness and high reliability.

### FEATURES

- > High Brightness
- > High Reliability
- > Water Clear with Flange
- > Narrow Beam Angle

### APPLICATIONS

- > Currency Validation
- > Driver License & Passport Identification
- > Medical & Analytical Instruments
- > Fluorescence



## Absolute Maximum Ratings (Ta=25°C)

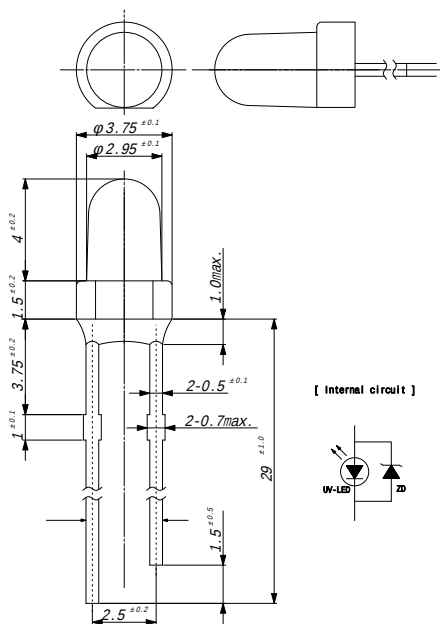


| ITEMS                        | SYMBOL | RATINGS    | UNIT |
|------------------------------|--------|------------|------|
| Forward Current              | IF     | 25         | mA   |
| Forward Current (Pulse)*1    | IFP    | 80         | mA   |
| Reverse Voltage              | VR     | 5          | V    |
| Power Dissipation            | PD     | 100        | mW   |
| Operating Temperature Range  | Topr   | -20 ~ +80  | °C   |
| Storage Temperature Range    | Tstg   | -30 ~ +100 | °C   |
| Lead Soldering Temperature*2 | Tls    | 260        | °C   |

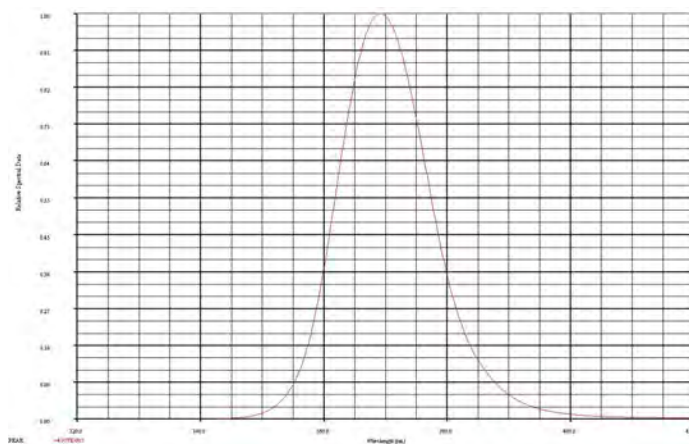
\*1: Tw=10uS, T=10mS \*2: Time 5 Sec max, Position: Up to 3mm from the body.

## Electrical & Optical Characteristics (Ta = 25°C)

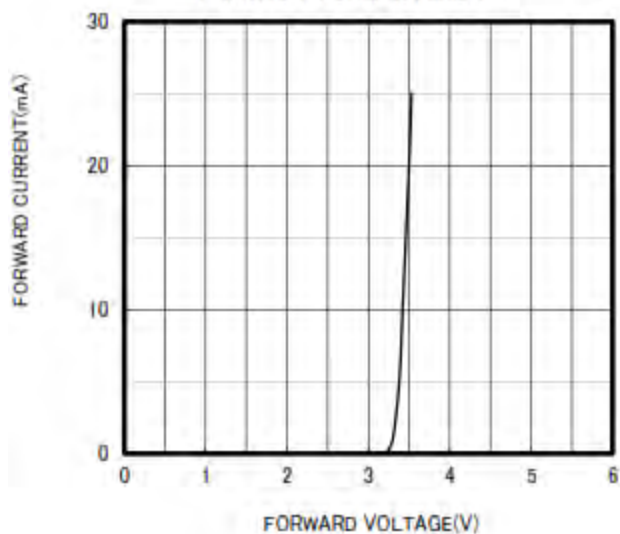
| ITEMS                     | SYMBOL                | CONDITIONS | MIN | TYP   | MAX | UNIT |
|---------------------------|-----------------------|------------|-----|-------|-----|------|
| Forward Voltage           | VF                    | IF=20mA    | --  | 3.4   | --  | V    |
| Power Output              | PO                    | IR=20mA    | --  | 7.3   | --  | mW   |
| Reverse Current           | IR                    | VR=5V      | --  | --    | 100 | uA   |
| Peak Emission Wavelength  | $\lambda_p$           | IF=20mA    | --  | 369   | --  | nm   |
| Spectral Bandwidth at 50% | $\Delta\lambda_{0.5}$ | IF=20mA    | --  | 17    | --  | nm   |
| Viewing Angle             | $\Theta$              | IF=20mA    | --  | +/-11 | --  | deg. |



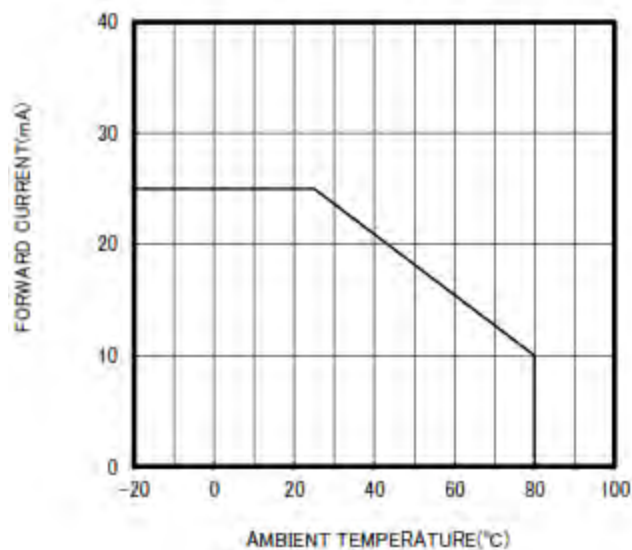
SPECTRAL RESPONSE



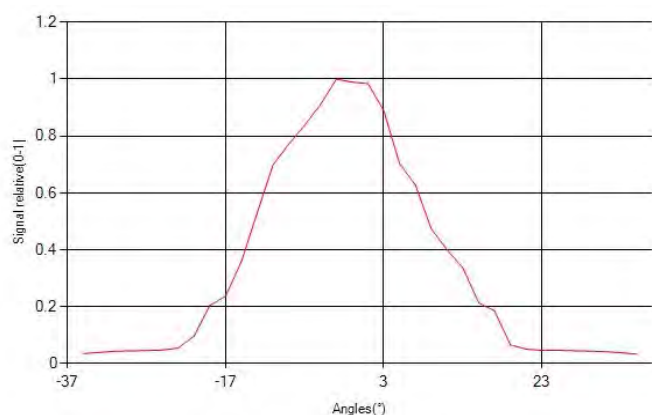
FORWARD I-V CHARACTERISTICS



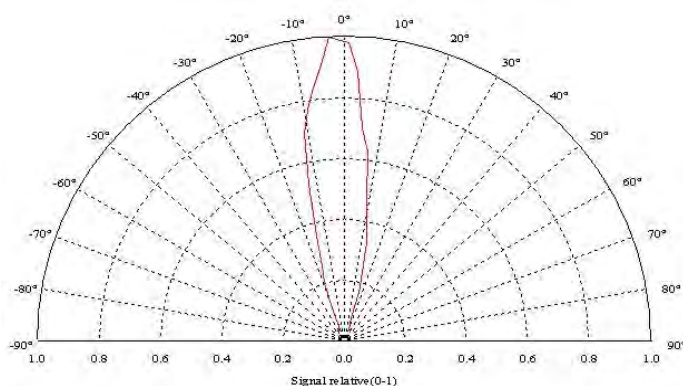
THERMAL DERATING CURVE



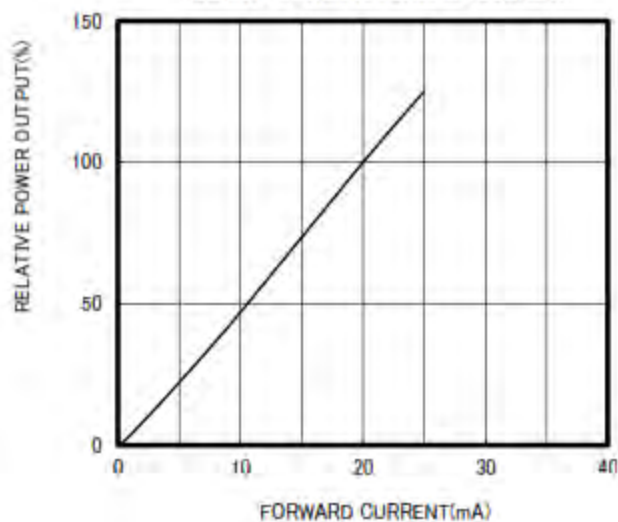
**RADIATION DISTRIBUTION**



**VIEW ANGLE**



**RELATIVE POWER vs FORWARD CURRENT**





 **CAUTION**

1. LEDs emit very strong UV radiation during operation.
2. Don't look directly into the LED light when in operation as UV radiation can harm your eyes.
3. To prevent even inadequate exposure, wear protective eyewear.
4. If LEDs are embedded in devices, please indicate warning labels against the UV LED used.
5. Avoid prolonged exposure to skin or other tissue during operation.
6. Keep out of reach of children.
7. Take appropriate precautions around pets and other living organisms to avoid UV exposure.
8. Specification and dimension are subject to change without notice.

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