

Peak Emission Wavelength: 255nm

The MTE2550F-UV UV emitter is specifically designed for applications requiring high radiant power output and accuracy in a TO-39 package with a special UV glass lens for optimum life time and device performance. Custom package solutions and sorting are available.

FEATURES

- > TO-39 Metal Can Package
- > High Reliability
- > Narrow Viewing Angle
- > Silanna Safe

APPLICATIONS

- > UV Curing / Light Therapy / Drug Discovery
- > Air and Water Disinfection
- > DNA / Protein Analysis



Absolute Maximum Ratings (Ta=25°C)



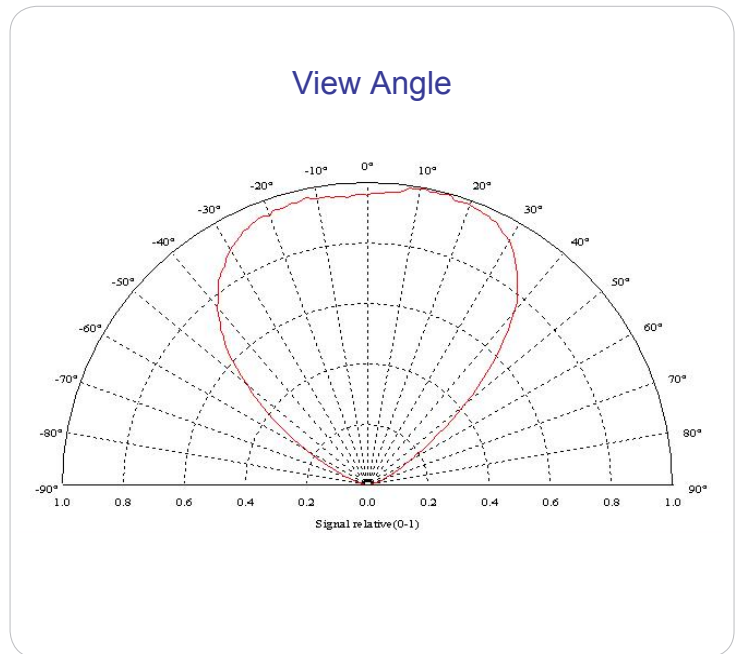
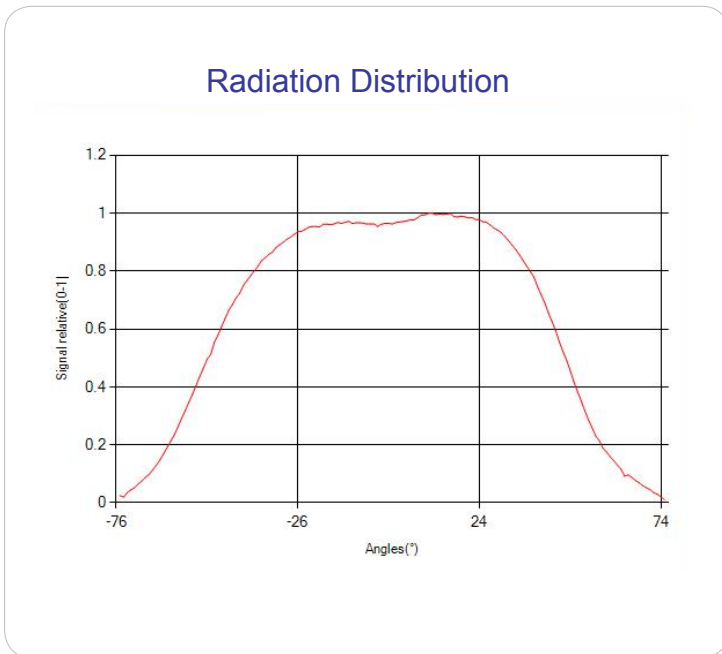
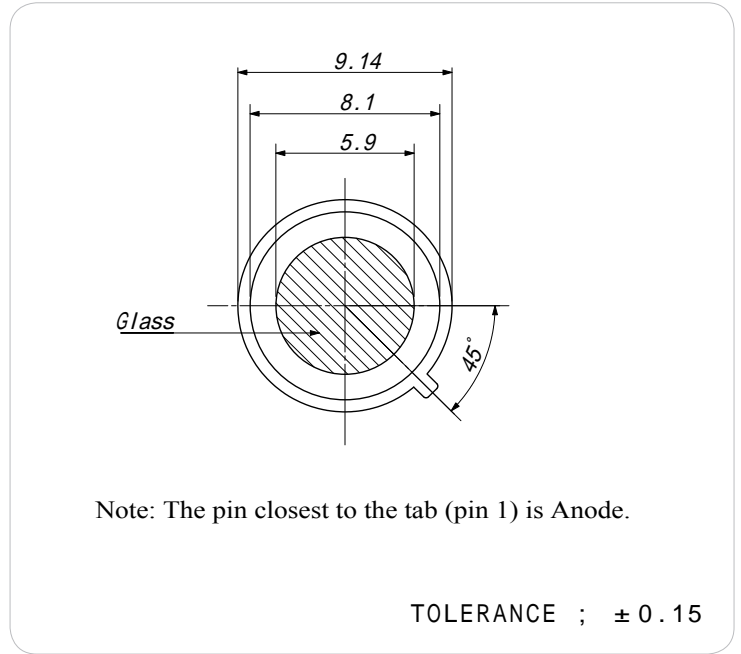
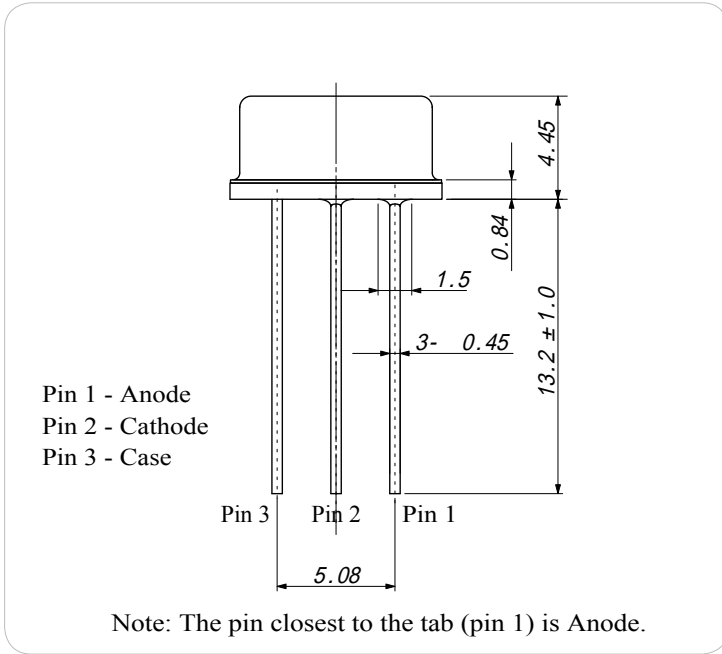
| ITEMS | SYMBOL | RATINGS | UNIT |
|-------------------------|--------|------------|------|
| Forward Current | IF | 100 | mA |
| Operating Temperature | Topr | 0 ~ +60 | °C |
| Storage Temperature | Tstg | -40 ~ +100 | °C |
| Junction Temperature | Tj | 85 | °C |
| Soldering Temperature*1 | Tsol | 300 | °C |

*1: Within 5 seconds.

Electrical & Optical Characteristics (Ta = 25°C)

| ITEMS | SYMBOL | CONDITIONS | MIN. | TYP | MAX. | UNIT |
|--------------------------|-----------------|------------|------|------|------|-------|
| Forward Voltage | VF | IF=20mA | 5.0 | 5.6 | 7.0 | V |
| Peak Wavelength | λ_p | IF=20mA | 250 | -- | 260 | nm |
| Power Output | PO | IF=20mA | -- | 0.61 | -- | mW |
| Radiant Intensity | I | IF=20mA | -- | -- | -- | mW/Sr |
| Spectral Line Half Width | $\Delta\lambda$ | IF=20mA | -- | 11 | 18 | nm |
| View Angle | Θ | IF=20mA | -- | 100 | -- | deg |

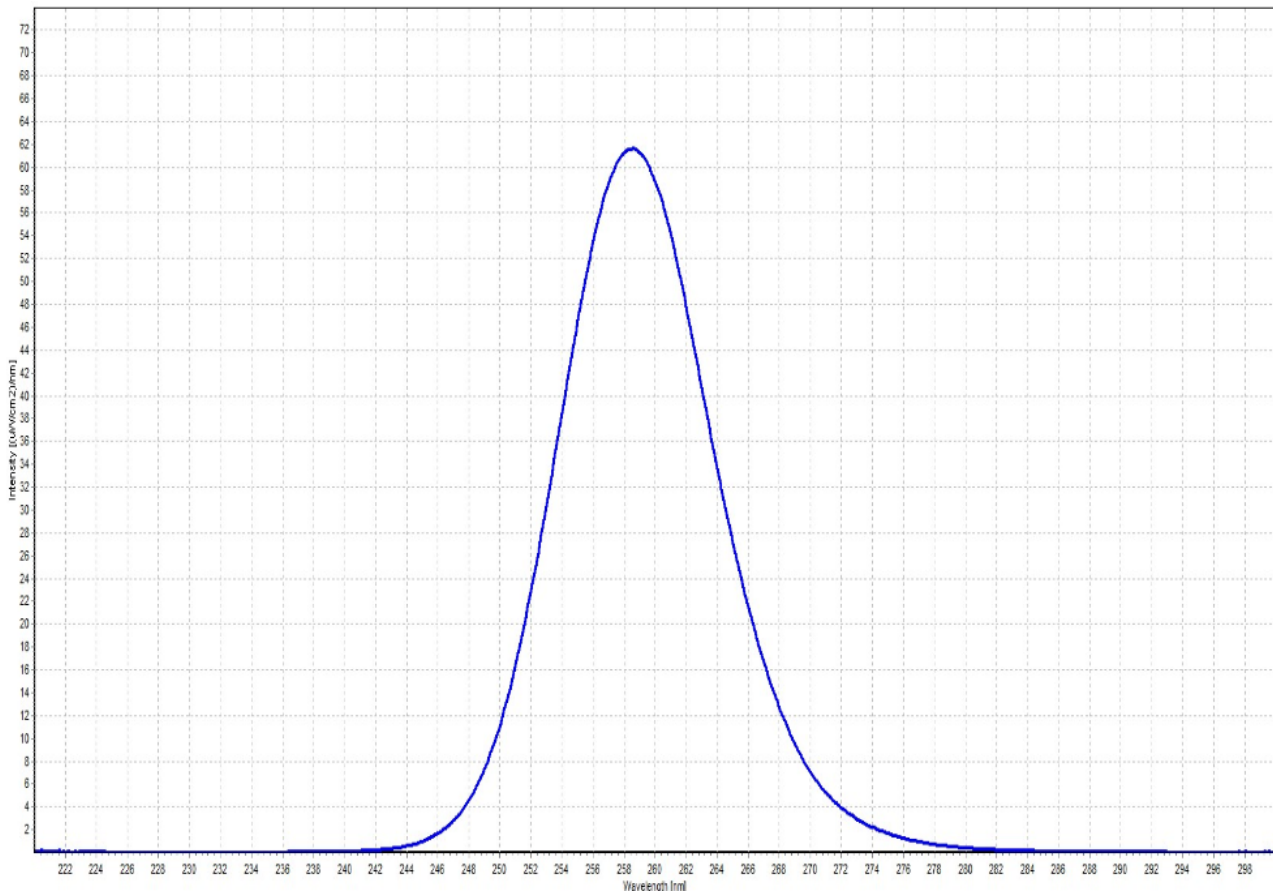
Package Dimensions





Unit: mm

2025-01-16

Spectral Response





 **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.