

Peak Emission Wavelength: 233nm

The MTE2330B-UV is a powerful, small-footprint Far UV-C emitting device. A peak wavelength of 230nm LED creates new feasibility for a variety of applications. This 233nm LED is effective for Water quality detection of Nitrate (NO₃) Nitrate (NO₂), gas detection of Carbon dioxide (CO₂) and liquid chromatography.

FEATURES

- > Far ultraviolet LED
- > Mercury Free
- > Hermetical Seal
- > ESD protection
- > Silanna Safe

APPLICATIONS

- > Chemical and biological analysis
- > Water quality monitoring
- > Gas sensing
- > Liquid chromatography
- > Disinfection



Absolute Maximum Ratings (Ta=25°C)



| ITEMS | SYMBOL | RATINGS | UNIT |
|-----------------------|--------|------------|------|
| Forward Current | IF | TBD | mA |
| Operating Temperature | Topr | 5 ~ +60 | °C |
| Storage Temperature | Tstg | -40 ~ +100 | °C |
| Junction Temperature | Tj | TBD | °C |
| ESD Classification | | 2 | |

Electrical & Optical Characteristics (Ta = 25°C)

| ITEMS | SYMBOL | CONDITIONS | MIN. | TYP | MAX. | UNIT |
|----------------------------------|--------|------------|------|------|------|-------|
| Forward Voltage | VF | IF=20mA | 5 | 6.5 | 8 | V |
| Peak Wavelength | λp | IF=20mA | 230 | 233 | 234 | nm |
| Radiant Flux | PO | IF=20mA | -- | 0.2 | -- | mW |
| Radiant Intensity | I | IF=20mA | 1 | 2 | -- | mW/Sr |
| FWHM | Δλ | IF=20mA | -- | 9 | -- | nm |
| View Angle | Θ | IF=20mA | -- | 17 | -- | deg |
| Power Dissipation | PD | IF=20mA | -- | 0.13 | -- | W |
| Thermal Resistance Junction-Case | Tth | IF=20mA | -- | TBD | -- | °C/W |



Package Dimensions



