

Peak Emission Wavelength: 235nm

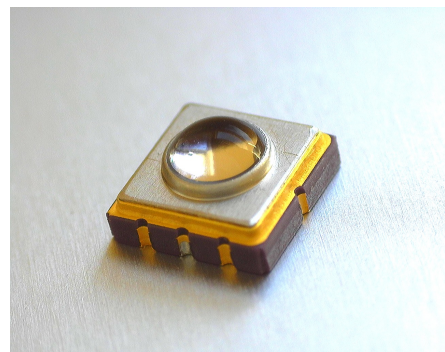
The MTSM2350HSD-UV is a powerful far UV-C emitting device. A peak wavelength of 235nm LED creates new feasibility for a variety of applications. This UV Emitter is in a Seam Welded Surface Mount package for applications requiring high output power and efficiency.

FEATURES

- > 5mm x 5mm Seam Welded Surface Mount Package
- > Hermetically Sealed Package
- > High Output Power
- > Silanna Safe

APPLICATIONS

- > UV Curing
- > Air and Water Disinfection
- > DNA Protein Analysis
- > Gas Sensing



Absolute Maximum Ratings (Ta=25°C)



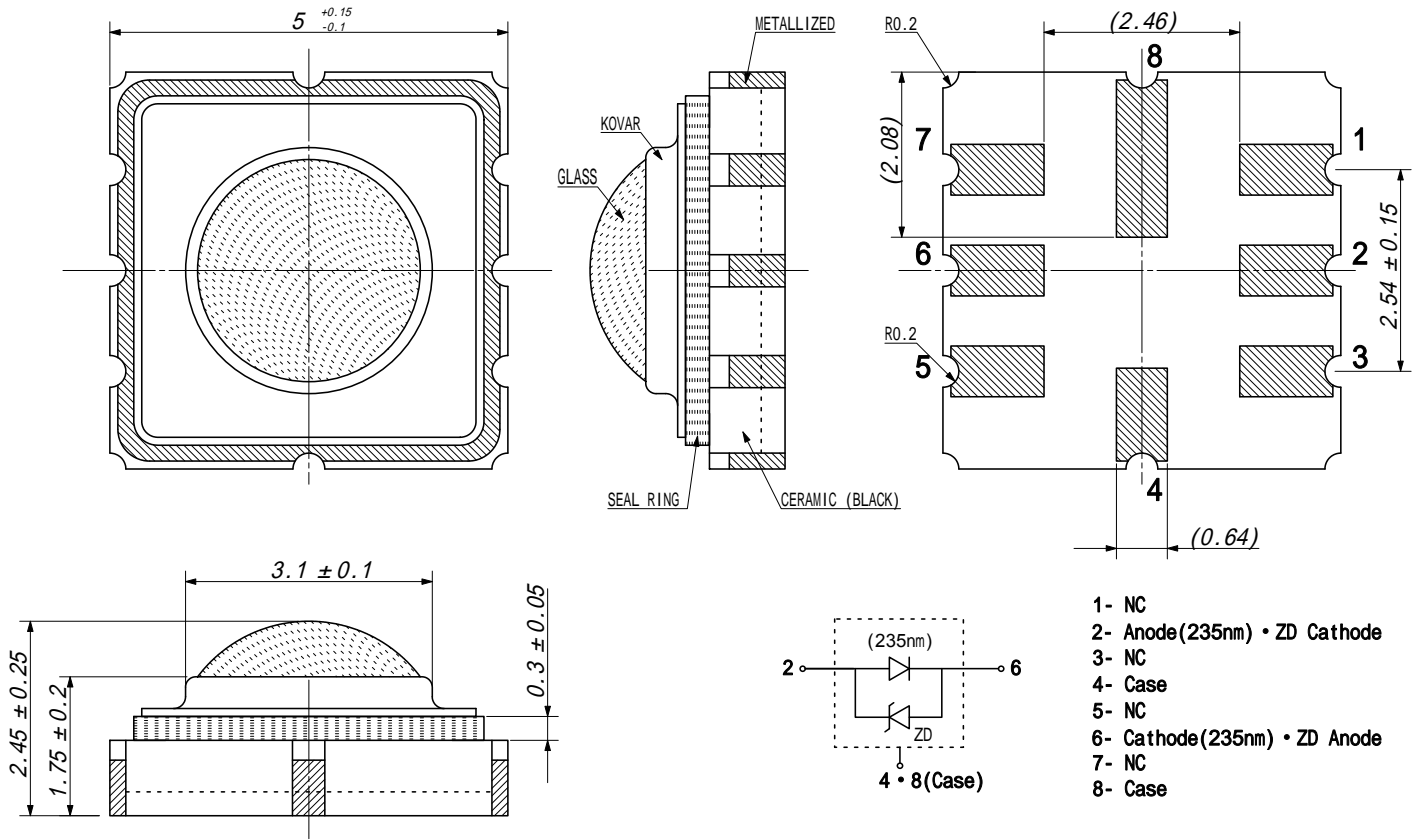
| ITEMS | SYMBOL | RATINGS | UNIT |
|-----------------------|--------|------------|------|
| Forward Current | IF | 100 | mA |
| Reverse Voltage | VR | TBD | V |
| Power Dissipation | PD | 800 | mW |
| Operating Temperature | Topr | TBD | °C |
| Storage Temperature | Tstg | -40 ~ +100 | °C |

Note: Also available on PCB - Starboard MTSM2350HSD-UVS (See Page 3)

Electrical & Optical Characteristics (Ta = 25°C)

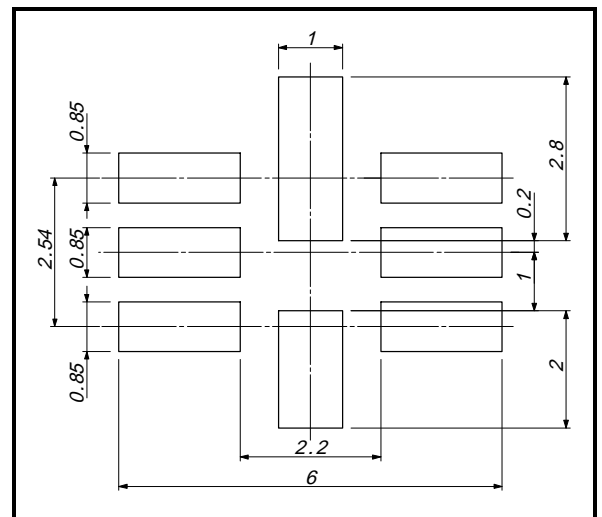
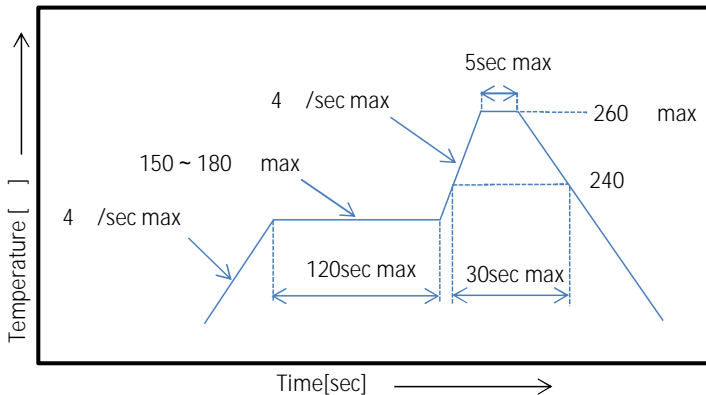
| ITEMS | SYMBOL | CONDITIONS | MIN. | TYP | MAX. | UNIT |
|-----------------|-----------------|------------|------|-----|------|------|
| Forward Voltage | VF | IF=20mA | -- | 5.8 | -- | V |
| Peak Wavelength | λ_p | IF=20mA | -- | 236 | -- | nm |
| Radiant Flux | PO | IF=20mA | -- | 310 | -- | uW |
| FWHM | $\Delta\lambda$ | IF=20mA | -- | 10 | -- | nm |
| View Angle | Θ | IF=20mA | -- | 60 | -- | deg |

Package Dimensions

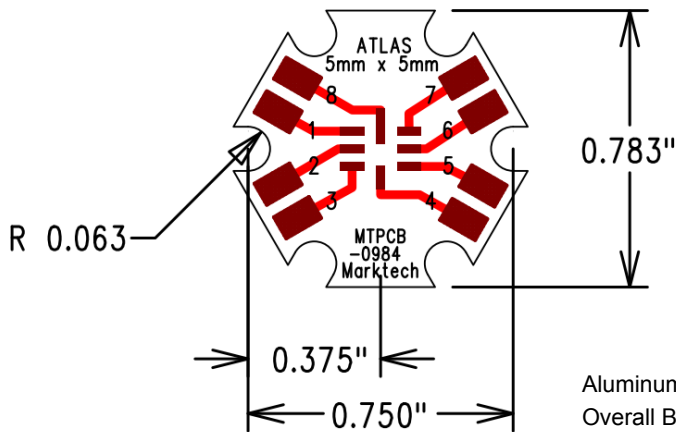


Recommended Soldering Pattern [mm]

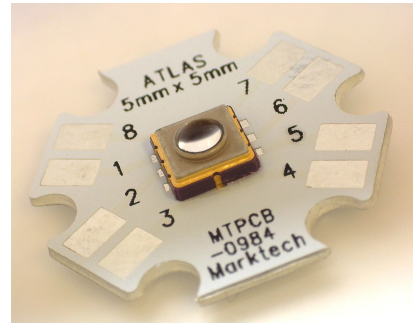
Reflow Soldering Temperature-Profile [Pb free Soldering] (Recommend condition)



Starboard Dimensions



| | |
|-------|---------|
| Pin 1 | NC |
| Pin 2 | Anode |
| Pin 3 | NC |
| Pin 4 | Case |
| Pin 5 | NC |
| Pin 6 | Cathode |
| Pin 7 | NC |
| Pin 8 | Case |



Aluminum Core Board 0.040" (1.02mm) Thickness
Overall Board Dimensions: +/- 0.010" (0.254mm)

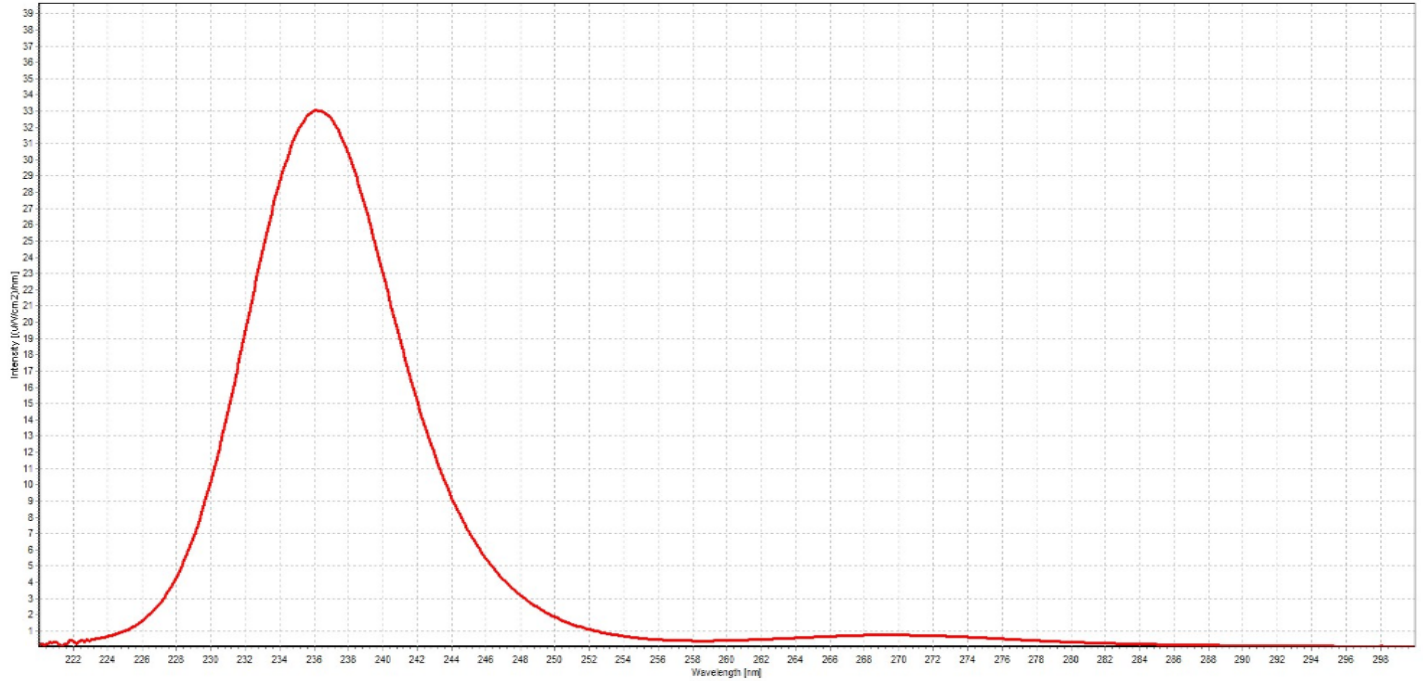


We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

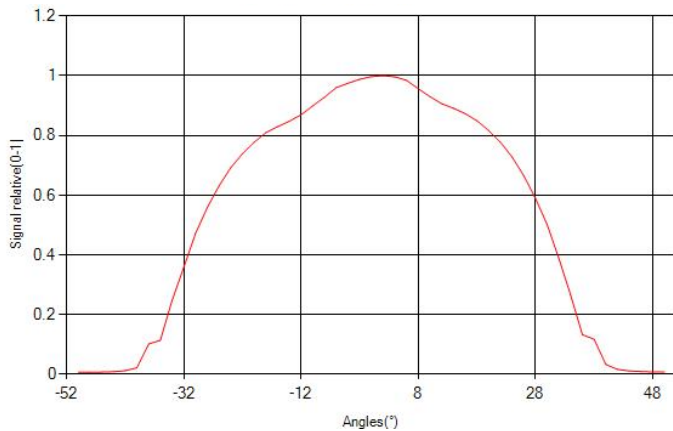
The information contained herein is subject to change without notice.

2024-01-18

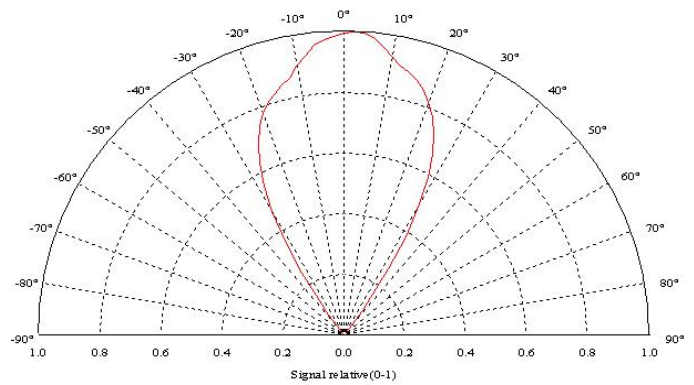
Spectral Response

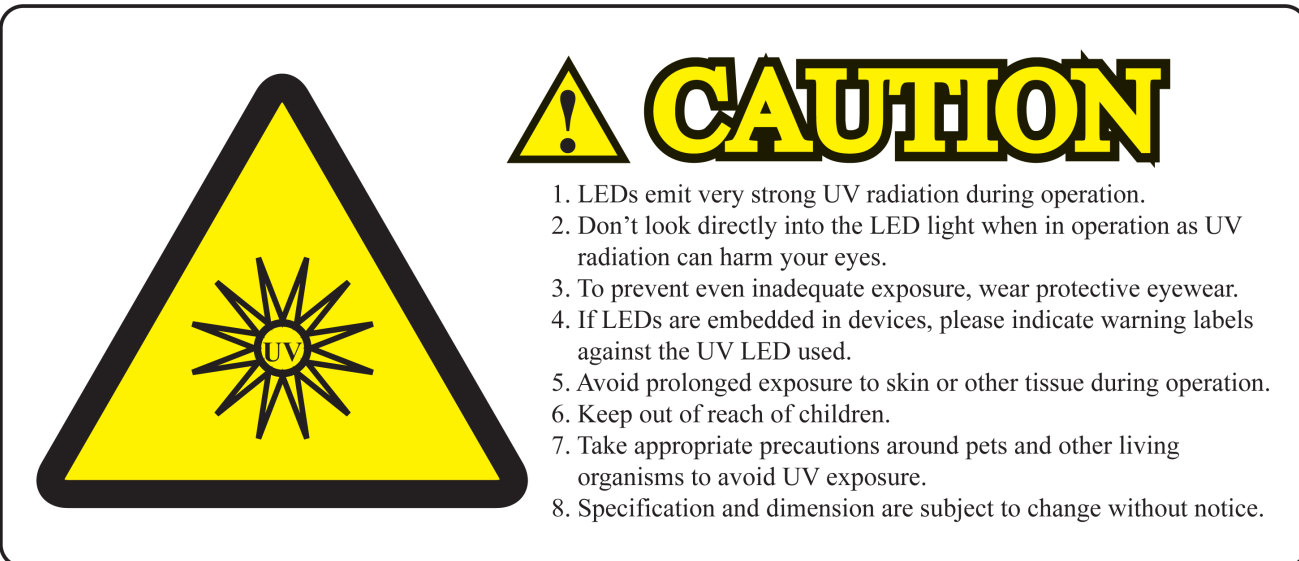



Radiation Distribution



View Angle





 **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.