



Ultraviolet Emitter

Product No: MTSM2550HSF-UV

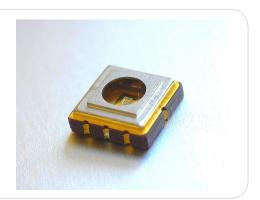
Peak Emission Wavelength: 255nm

The MTSM2550HSF-UV is a powerful deep UV-C emitting device. A peak wavelength of 255nm 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.

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

APPLICATIONS

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



Absolute Maximun	Silanna silanna safe" (Pb)			
ITEMS	SYMBOL	RATINGS	UNIT	lead-free KOP3
Forward Current	IF	100	mA	
Reverse Voltage	VR	TBD	V	
Power Dissipation	PD	700	mW	
Operating Temperature	Topr	TBD	°C	
Storage Temperature	Tstg	-40 ~ +100	°C	

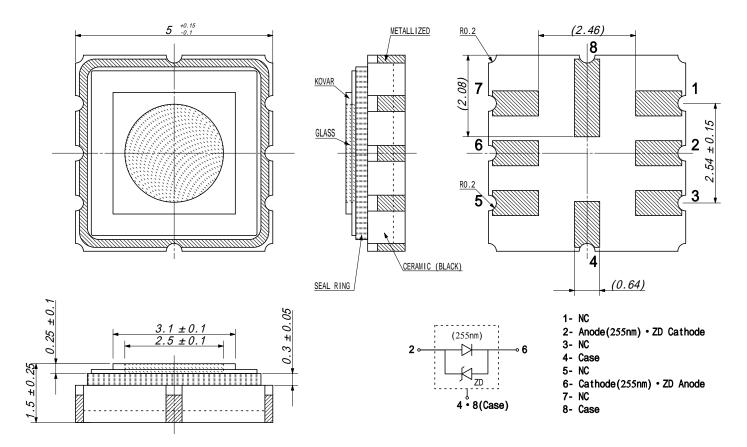
Note: Also available on PCB - Starboard MTSM2550HSF-UV2 (See Page 3)

Electrical & Optical Characteristics (Ta = 25°C)									
ITEMS	SYMBOL	CONDITIONS	MIN.	TYP	MAX.	UNIT			
Forward Voltage	VF	IF=20mA		5.6		V			
Peak Wavelength	λρ	IF=20mA		258		nm			
Radiant Flux	PO	IF=20mA		840		uW			
FWHM	Δλ	IF=20mA		11		nm			
View Angle	Θ	IF=20mA		120		deg			

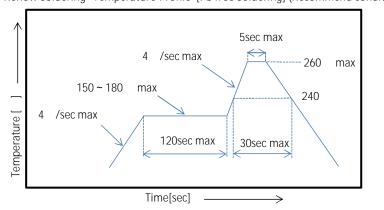
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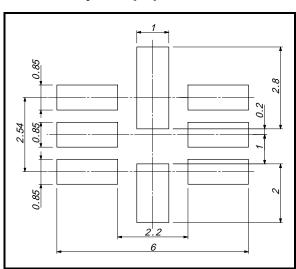
Package Dimensions



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



Recommended Soldering Pattern [mm]







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Starboard Dimensions Pin 1 NC Pin 2 Anode Pin 3 NC Pin 4 Case 0.783" Pin 5 NC Pin 6 Cathode NC Pin 7 R 0.063 Pin 8 Case Marktech (Aluminum Core Board 0.040" (1.02mm) Thickness Overall Board Dimensions: +/- 0.010" (0.254mm)



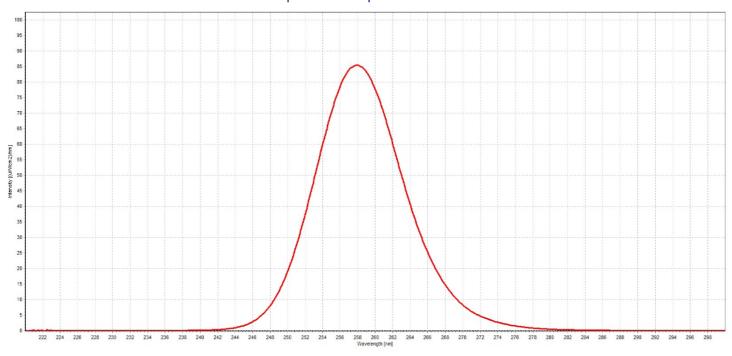
We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

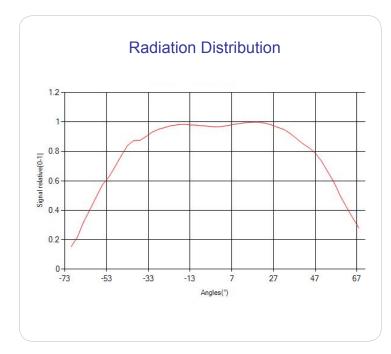
The information contained herein is subject to change without notice.

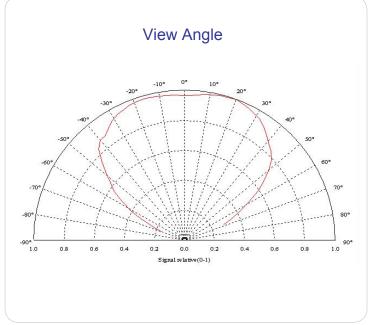
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Spectral Response

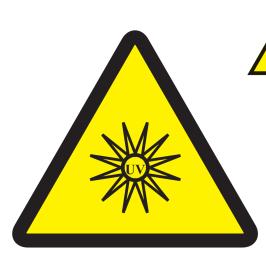






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- 1. LEDs emit very strong UV radiation during operation.
- 2. Don't look directly into the LED light when in operation as UV radiation can harm your eyes.
- 3. To prevent even inadequate exposure, wear protective eyewear.
- 4. If LEDs are embedded 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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Mouser Electronics

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MTSM2550HSF-UVS