## **Preliminary**



# Visible Emitter

Product No: MTSM4501SMR2-UB

## Peak Emission Wavelength: 450nm

The MTSM4501SMR2-UB is a Blue Emitter in a Seam Welded Surface Mount package for applications requiring high output power and efficiency.

#### **FEATURES**

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

#### **APPLICATIONS**

- > Bio Medical Applications
- > Optical Sensors
- > Aerospace
- > Industrial Controls



Absolute Maximum Ratings (Ta=25°C)					
ITEMS	SYMBOL	RATINGS	UNIT		lead-free
Forward Current (DC)	IF	50	mA		
Forward Current (Pulse)*1	IFP	0.5	А		
Reverse Voltage	VR	5	V		
Power Dissipation	PD		mW		
Operating Temperature Range	Topr	-20 ~ +85	°C		
Storage Temperature Range	Tstg	-30 ~ +100	°C		

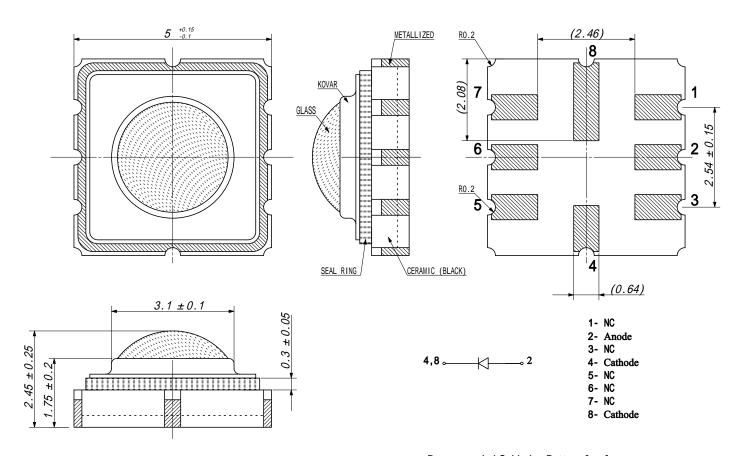
\*1: Tw=10µsec, T=10msec

· ·		`	,			
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	IF=20mA		2.65		V
Power Output	PO	IF=20mA		17		mW
Reverse Current	IR	VR=5V				μΑ
Peak Emission Wavelength	λр	IF=20mA		450		nm
Dominant Emission Wavelength	λd	IF=20mA		455		nm
Spectral Line Half Width	Δλ	IF=20mA		18		nm
Half Intensity Beam Angle	Θ	IF=20mA		50		deg

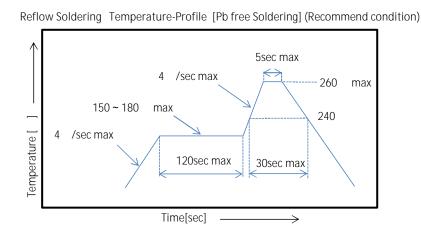
2023-09-05

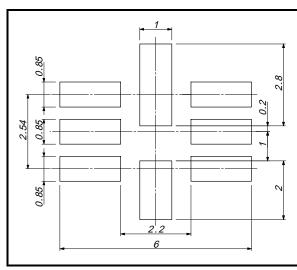


### **Package Dimensions**



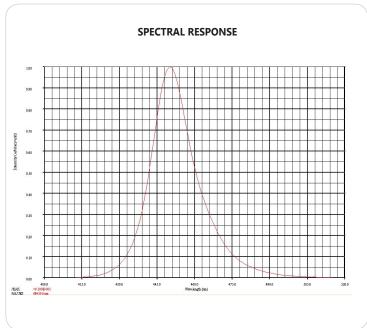
### Recommended Soldering Pattern [mm]

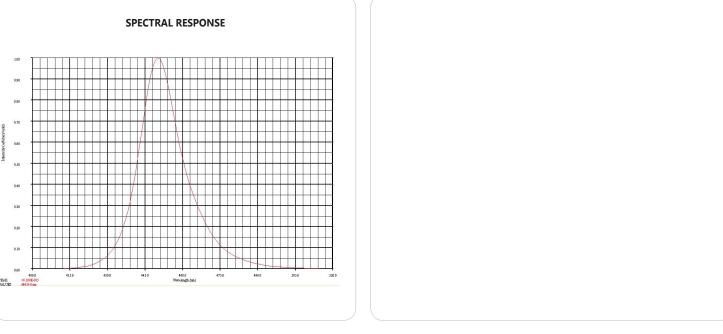


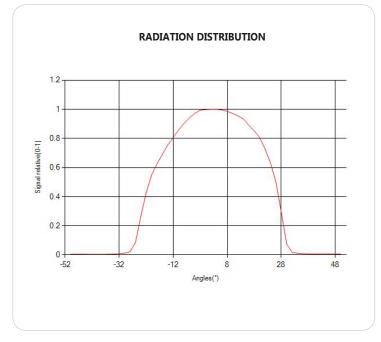


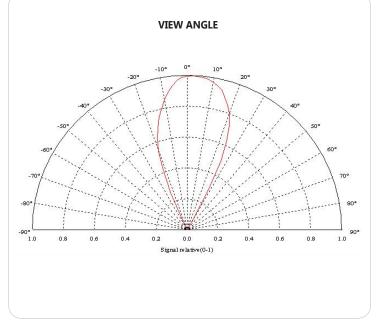
2023-09-05











The information contained herein is subject to change without notice.