

# SWIR Emitter

Product No: MTSM1301SMR2

## Peak Emission Wavelength: 1350nm

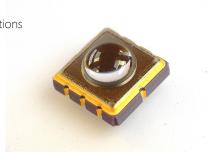
The MTSM1301SMR2 is a 1350nm SWIR Emitter in a Seam Welded Surface Mount package for applications requiring high output power and efficiency.

### **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







ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	100	mA
Forward Current (Pulse)*1	IFP	1	Α
Reverse Voltage	VR	5	V
Power Dissipation	PD	100	mW
Operating Temperature Range	Topr	-20 ~ +85	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C

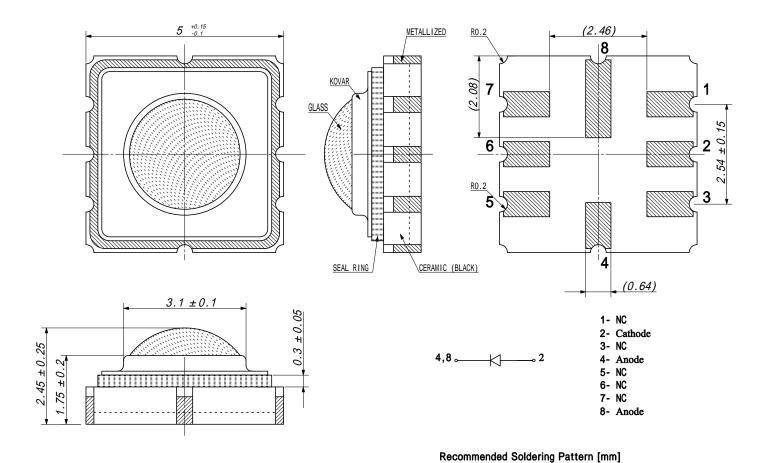
\*1: Tw=10µsec, T=10msec

# Electrical & Optical Characteristics (Ta = 25°C)

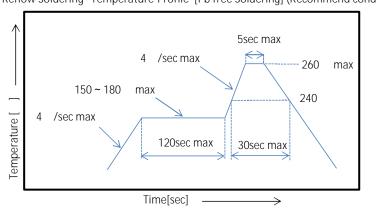
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	IF=50mA		0.88		V
Power Output	PO	IF=50mA		4.6		mW
Reverse Current	IR	VR=5V			10	μΑ
Peak Emission Wavelength	λρ	IF=50mA		1350		nm
Spectral Line Half Width	Δλ	IF=50mA		60		nm
Half Intensity Beam Angle	$\Theta$	IF=50mA		40		deg



# **Package Dimensions**



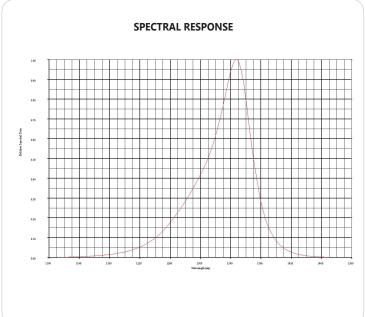
### Reflow Soldering Temperature-Profile [Pb free Soldering] (Recommend condition)

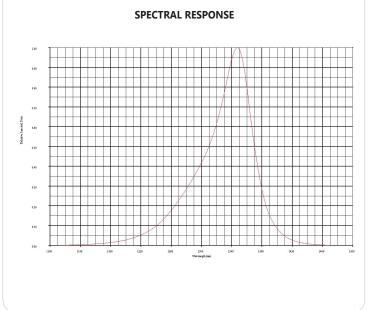


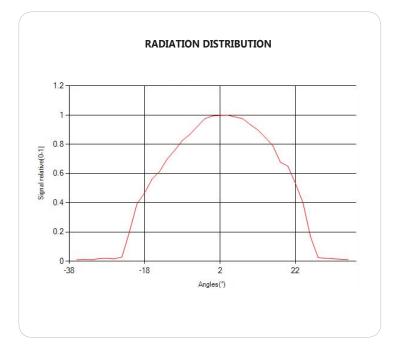
# 2.54

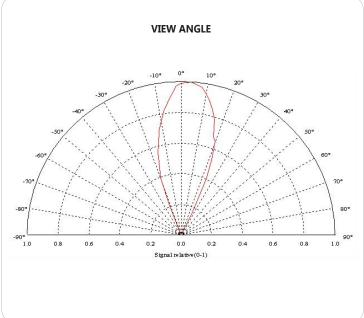
2023-11-06











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