

# SWIR Emitter

Product No: MTSM1301SMR2

### Peak Emission Wavelength: 1350nm

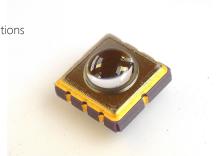
The MTSM1301SMR2 is a 1350nm SWIR Emitter in a Seam Welded Surface Mount package for applications requiring high output power and efficiency.

#### **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



Absolute Maximum	ı Ratıngs (I	1a=25°C)	
ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	100	mA
Forward Current (Pulse)*1	IFP	1	А

Forward Current (Pulse)\*1 IFP 1 A

Reverse Voltage VR 5 V

Power Dissipation PD 100 mW

Operating Temperature Range Topr -20 ~ +85 °C

Storage Temperature Range Tstg -30 ~ +100 °C

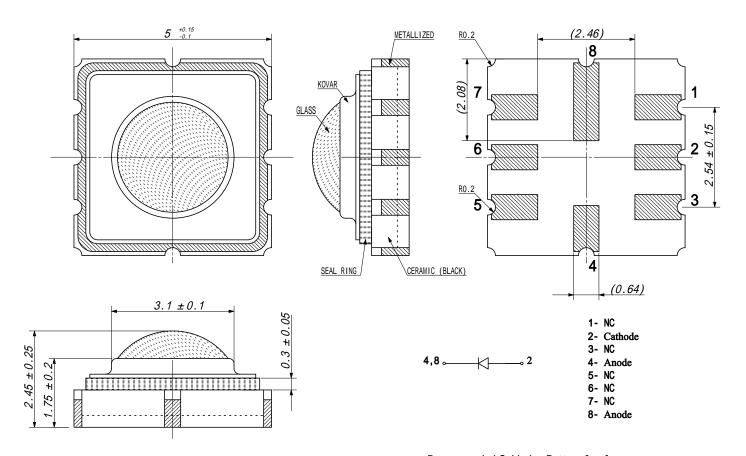
\*1: Tw=10µsec, T=10msec

Electrical &	Optical	Characteristics	(Ta =	25°C)
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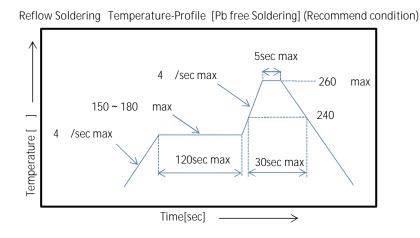
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	IF=50mA		0.88		V
Power Output	PO	IF=50mA		4.6		mW
Reverse Current	IR	VR=5V			10	μΑ
Peak Emission Wavelength	λρ	IF=50mA		1350		nm
Spectral Line Half Width	Δλ	IF=50mA		60		nm
Half Intensity Beam Angle	$\Theta$	IF=50mA		40		deg

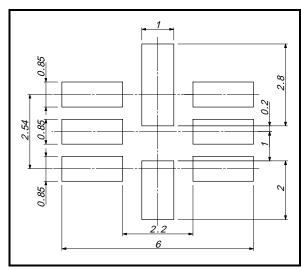


## **Package Dimensions**



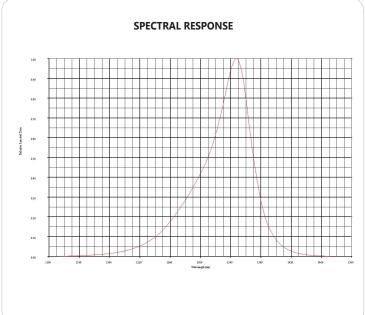
### Recommended Soldering Pattern [mm]

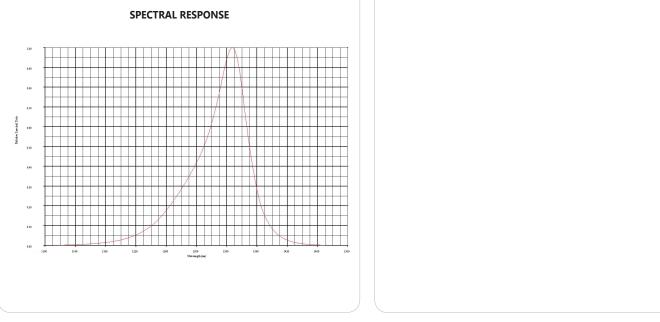


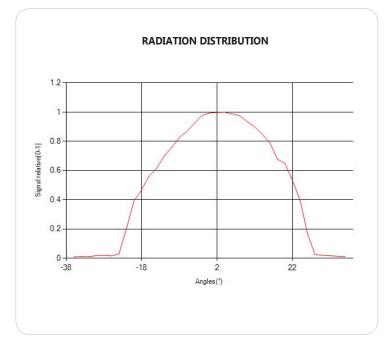


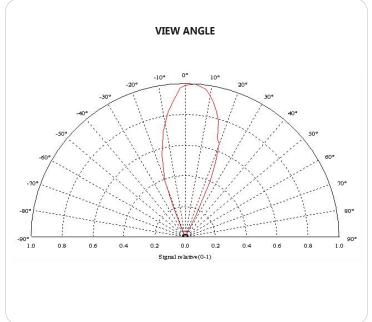
2023-11-06











The information contained herein is subject to change without notice.