

SWIR Emitter

Product No: MTSM1901SMR2

Peak Emission Wavelength: 1900nm

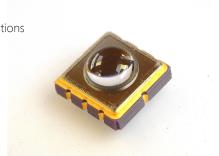
The MTSM1901SMR2 is a 1900nm SWIR Emitter in a Seam Welded Surface Mount package for applications requiring high output power and efficiency.

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

Note: Also available on PCB - Starboard MTSM1901SMR2S (See Page 3)

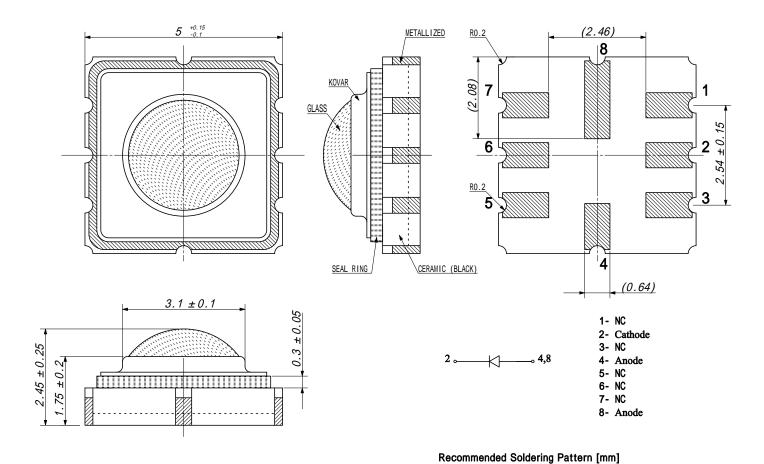
*1: Tw=10µsec, T=10msec

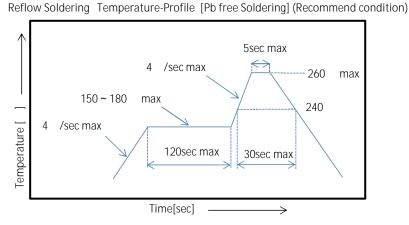
ITEMS SYMBOL CONDITIONS MIN TYP MAX U	NIT
Forward Voltage VF IF=50mA 0.73 V	/
Power Output PO IF=50mA 2.4 m	ıW
Reverse Current IR VR=5V 10 µ.	Α
Peak Emission Wavelength λp IF=50mA 1870 ne	m
Spectral Line Half Width $\Delta\lambda$ IF=50mA 100 ni	m
Half Intensity Beam Angle	eg

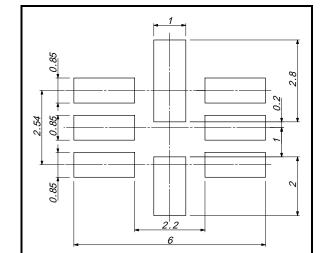
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Package Dimensions







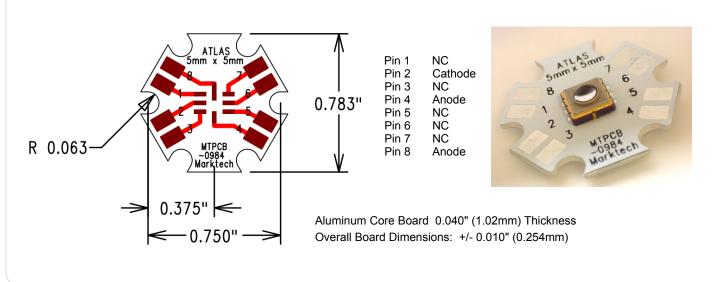
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Product No: MTSM1901SMR2

Starboard Dimensions



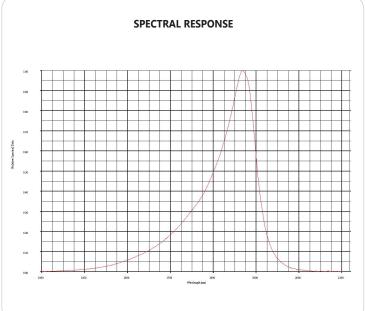


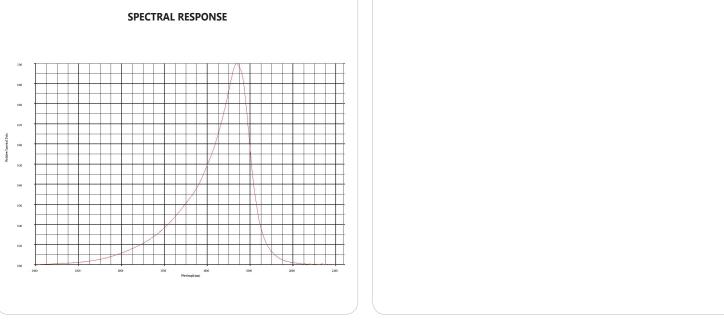
We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

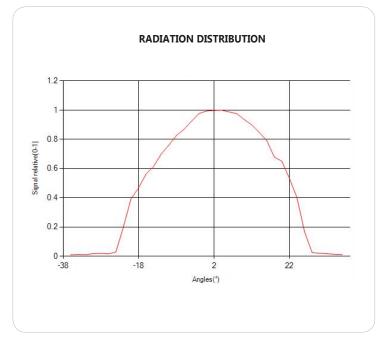
The information contained herein is subject to change without notice.

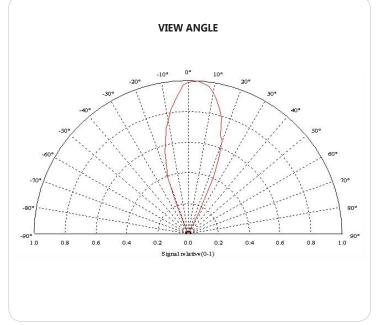
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