

SWIR Emitter

Product No: MTSM5415SMR2

Peak Emission Wavelength: 1550nm

The MTSM5415SMR2 is a 1550nm 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

Operating Temperature Range

Storage Temperature Range

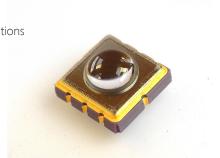
APPLICATIONS

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

-20 ~ +85

-30 ~ +100

> Industrial Controls



Absolute Maximum Ratings (Ta=25°C)				
SYMBOL	RATINGS	UNIT	lead-free R	
IF	100	mA		
IFP	1	A		
VR	5	V		
PD	100	mW		
	SYMBOL IF IFP VR	SYMBOL RATINGS IF 100 IFP 1 VR 5	SYMBOL RATINGS UNIT IF 100 mA IFP 1 A VR 5 V	

*1: Tw=10µsec, T=10msec

 $^{\circ}$ C

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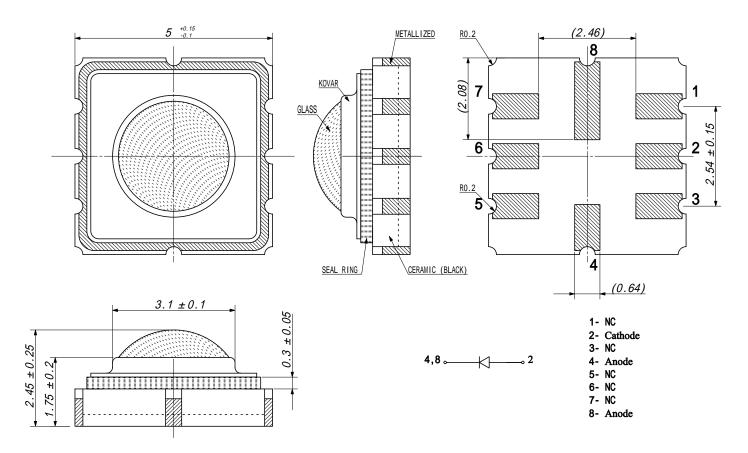
Tstg

2.00thour displacements (1d 200)									
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT			
Forward Voltage	VF	IF=50mA		0.84		V			
Power Output	PO	IF=50mA		3.8		mW			
Reverse Current	IR	VR=5V			10	μΑ			
Peak Emission Wavelength	λρ	IF=50mA		1550		nm			
Spectral Line Half Width	Δλ	IF=50mA		90		nm			
Half Intensity Beam Angle	Θ	IF=50mA		40		deg			

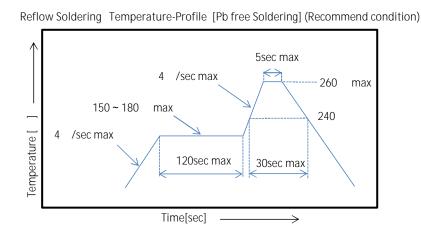
2023-11-06

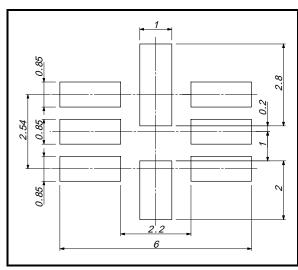


Package Dimensions



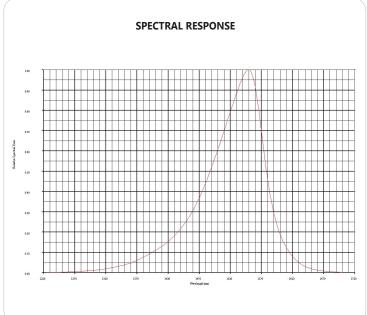
Recommended Soldering Pattern [mm]

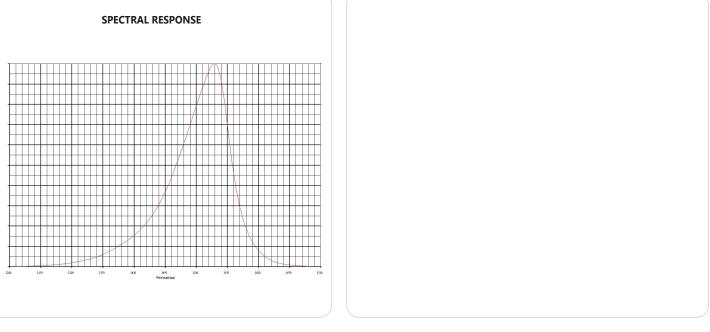


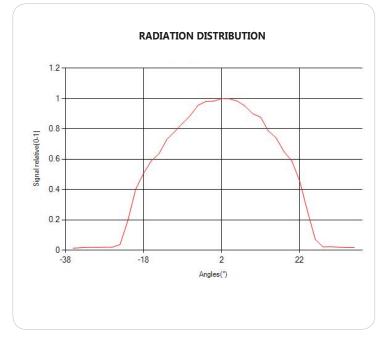


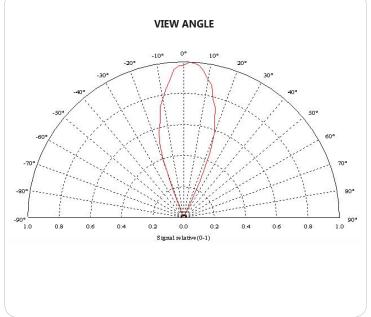
2023-11-06











The information contained herein is subject to change without notice.