

Peak Emission Wavelength: 1100nm

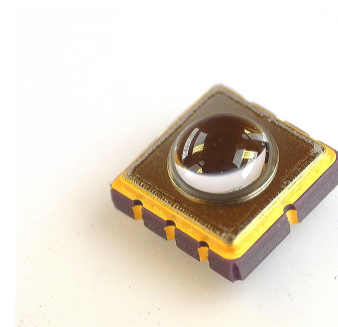
The MTSM4111SMR2 is a SWIR Emitter in a Seam Welded Surface Mount package for applications requiring high output power and efficiency.

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 Ratings (Ta=25°C)



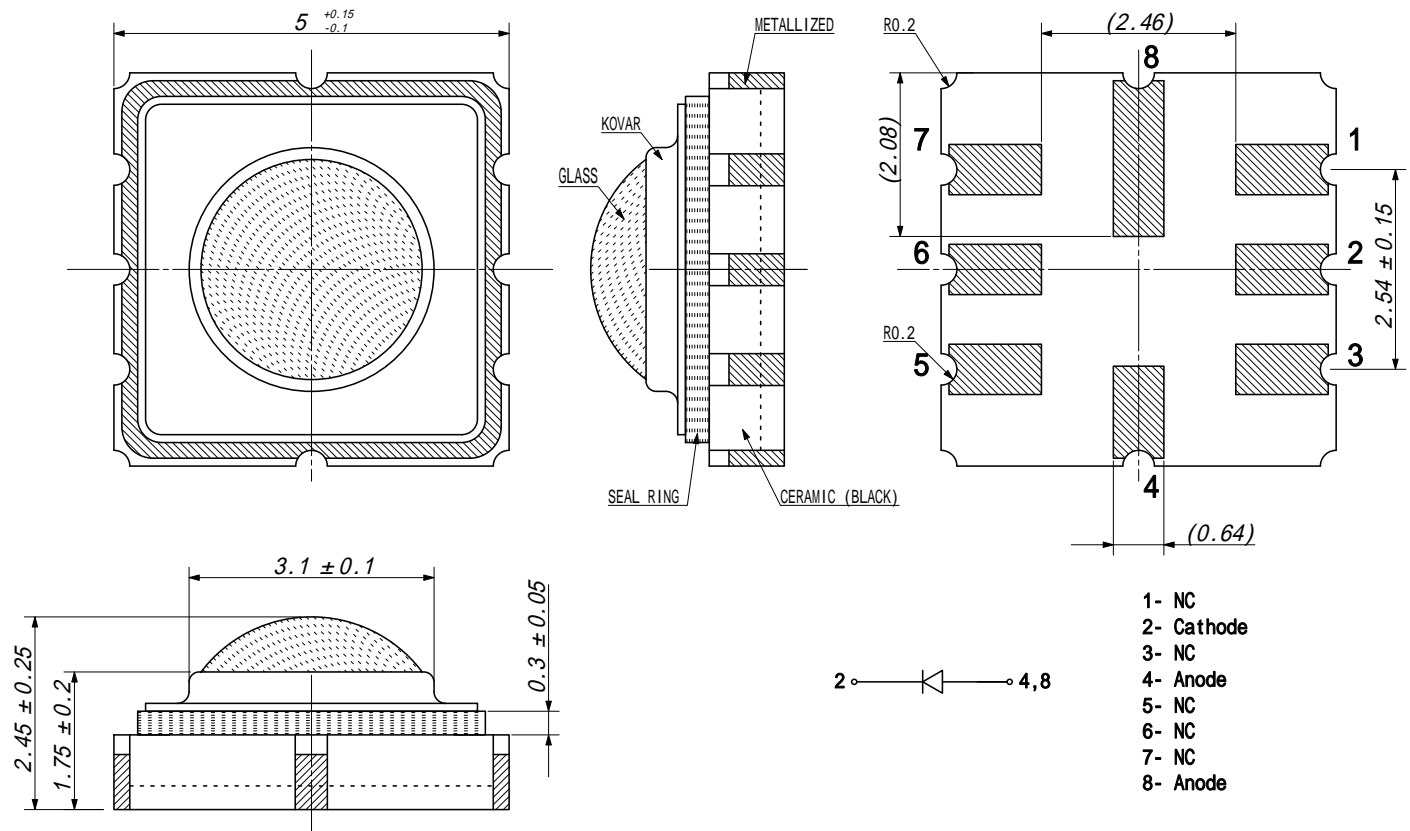
ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	100	mA
Forward Current (Pulse)*1	IFP	1	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	100	mW
Operating Temperature Range	Topr	-20 ~ +85	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C

*1: Tw=10μsec, T=10msec

Electrical & Optical Characteristics (Ta = 25°C)

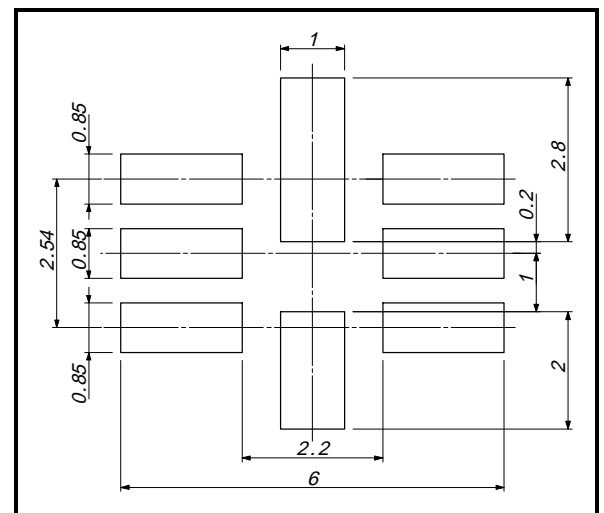
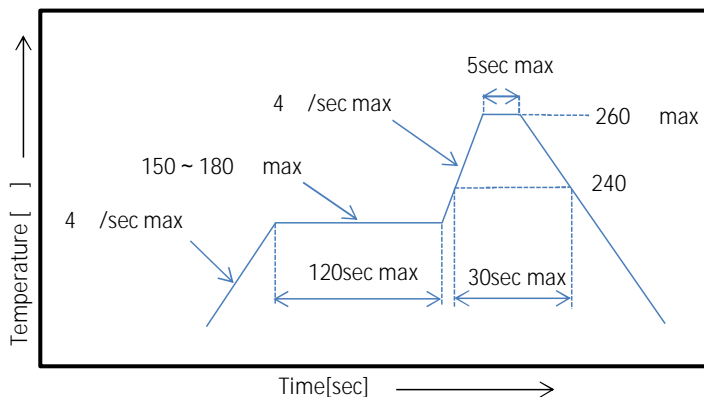
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	IF=100mA	--	1.1	1.5	V
Power Output	PO	IF=100mA	--	25		mW
Reverse Current	IR	VR=5V	--	--	100	μA
Peak Emission Wavelength	λp	IF=100mA	--	1100	--	nm
Spectral Line Half Width	Δλ	IF=100mA	--	40	--	nm
Half Intensity Beam Angle	Θ	IF=100mA	--	--	--	deg

Package Dimensions



Recommended Soldering Pattern [mm]

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



SPECTRAL RESPONSE

