

Peak Emission Wavelength: 660nm

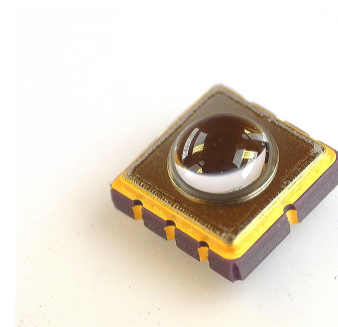
The MTSM3466SMR2-UR is a Red Emitter in a Seam Welded Surface Mount package for applications requiring high output power and efficiency.

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	50	mA
Forward Current (Pulse)*1	IFP	0.5	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	--	mW
Operating Temperature Range	Topr	-20 ~ +85	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C

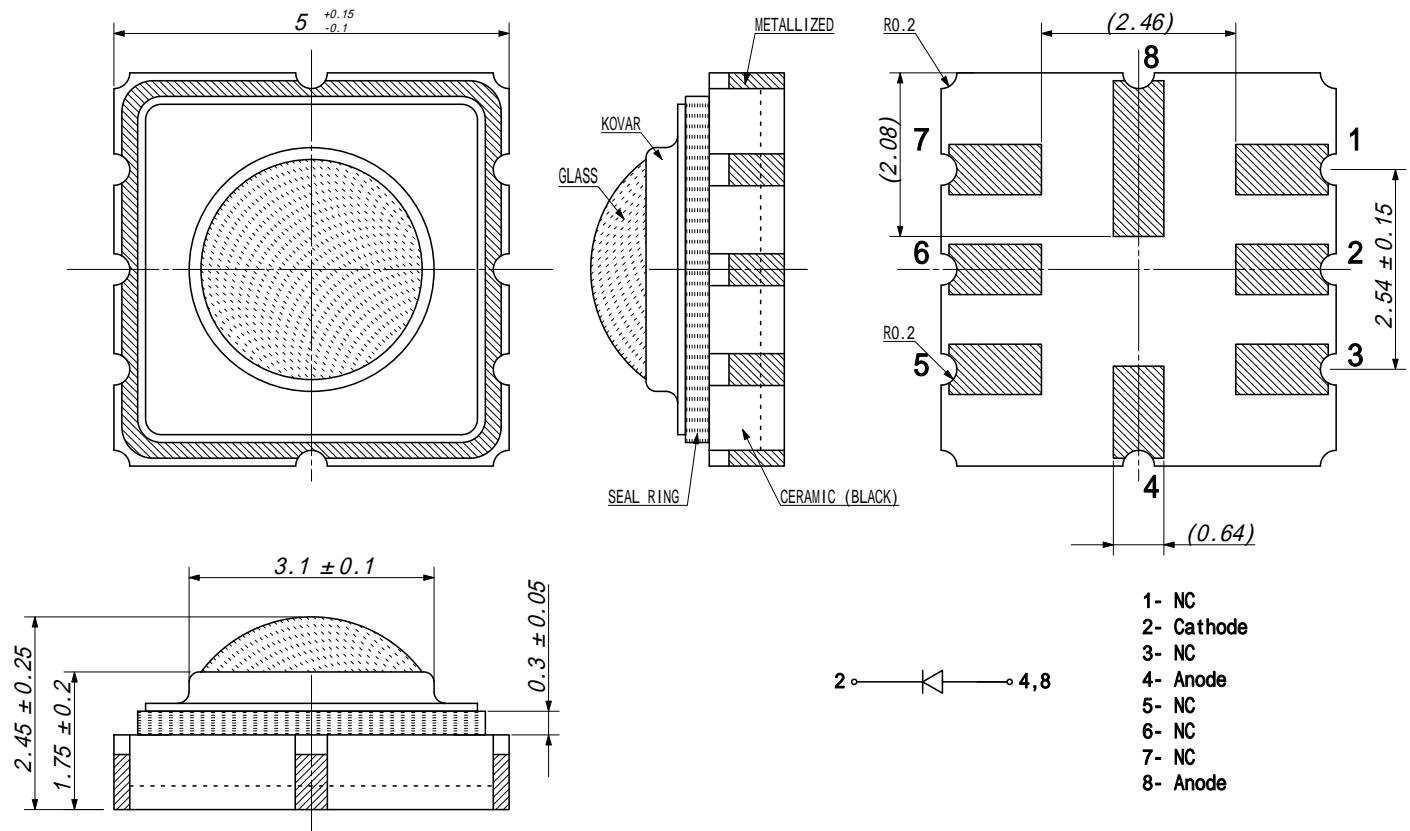
Note: Also available on PCB - Starboard MTSM3466SMR2-URS (See Page 3)

*1: Tw=10μsec, T=10msec

Electrical & Optical Characteristics (Ta = 25°C)

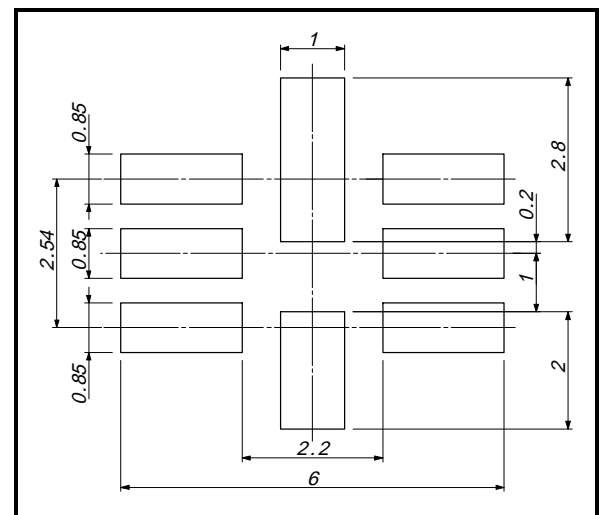
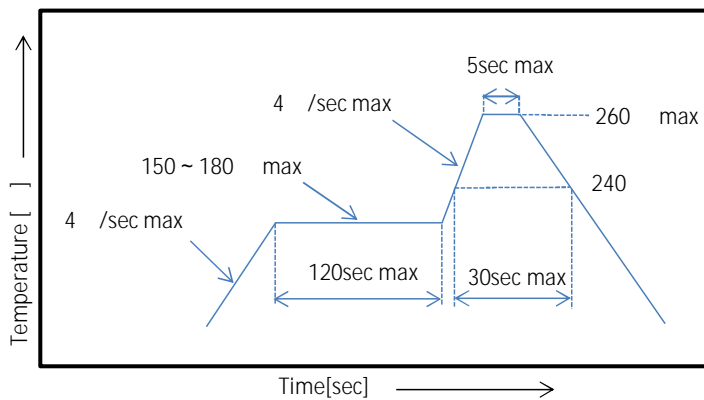
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	IF=20mA	--	1.7	--	V
Power Output	PO	IF=20mA	--	8	--	mW
Reverse Current	IR	VR=5V	--	--	--	μA
Peak Emission Wavelength	λp	IF=20mA	--	660	--	nm
Dominant Emission Wavelength	λd	IF=20mA	--	648	--	nm
Spectral Line Half Width	Δλ	IF=20mA	--	16	--	nm
Half Intensity Beam Angle	Θ	IF=20mA	--	40	--	deg

Package Dimensions

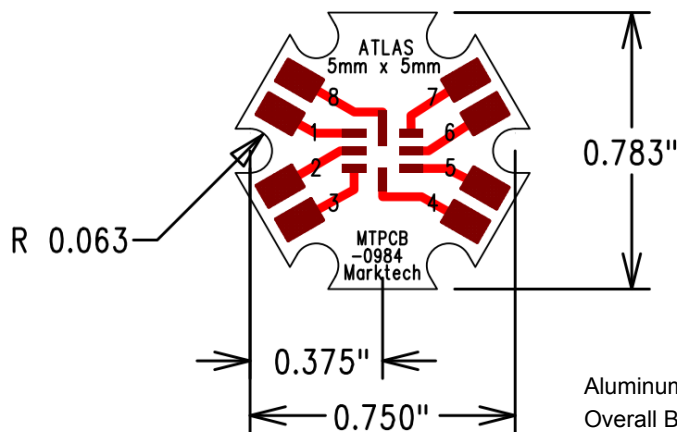


Recommended Soldering Pattern [mm]

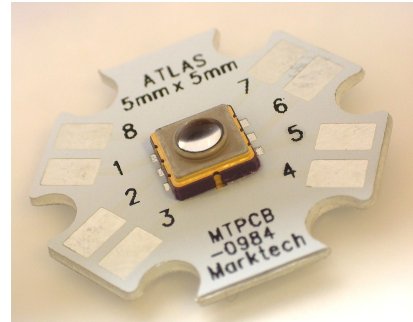
Reflow Soldering Temperature-Profile [Pb free Soldering] (Recommend condition)



Starboard Dimensions



Pin 1	NC
Pin 2	Cathode
Pin 3	NC
Pin 4	Anode
Pin 5	NC
Pin 6	NC
Pin 7	NC
Pin 8	Anode



Aluminum Core Board 0.040" (1.02mm) Thickness
Overall Board Dimensions: +/- 0.010" (0.254mm)

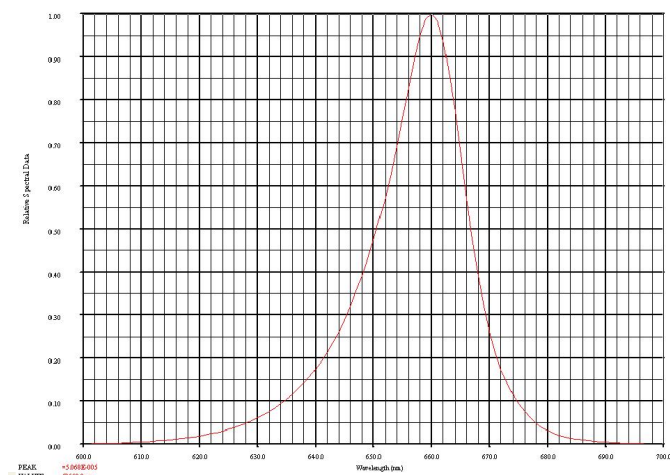


We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

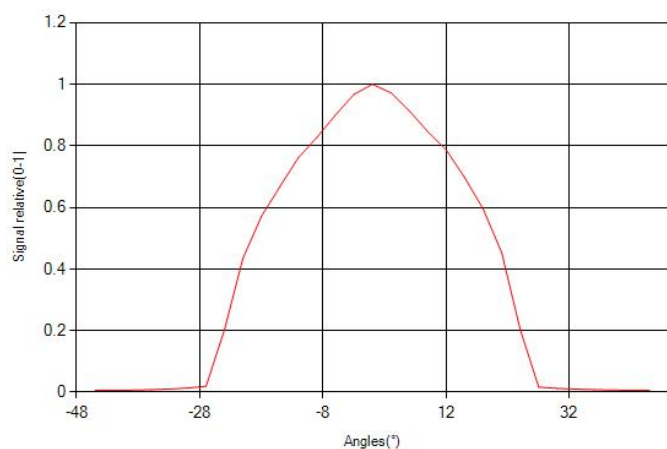
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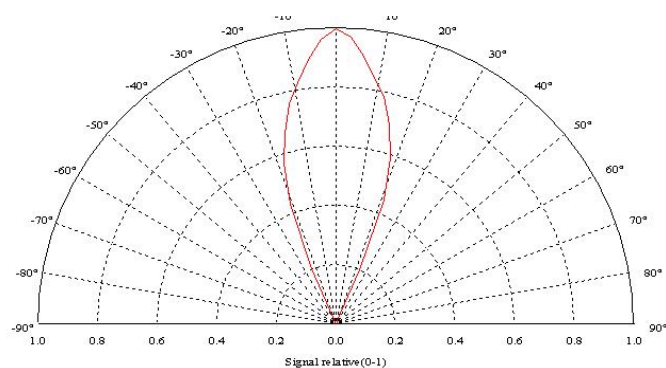
SPECTRAL RESPONSE



RADIATION DISTRIBUTION



VIEW ANGLE



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Global Headquarters, 3 Northway Lane North, Latham, NY 12110, USA www.marktechopto.com

TOLL FREE: 1-800-984-5337 • PHONE: 518-956-2980 • FAX: 518-785-4725 • EMAIL: info@marktechopto.com

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