

Visible Emitter

Product No: MTSM4047SMR1-UB

Peak Emission Wavelength: 470nm

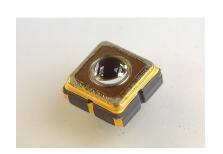
The MTSM4047SMR1-UB is a Blue Emitter in a Seam Welded Surface Mount package for applications requiring high output power and efficiency.

FEATURES

- > 3mm x 3mm 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		lead-free KOFS
Forward Current (DC)	IF	50	mA		
Forward Current (Pulse)*1	IFP	0.5	Α		
Reverse Voltage	VR	5	V		
Power Dissipation	PD		mW		
Operating Temperature Range	Topr	-20 ~ +85	°C		
Storage Temperature Range	Tstg	-30 ~ +100	°C		

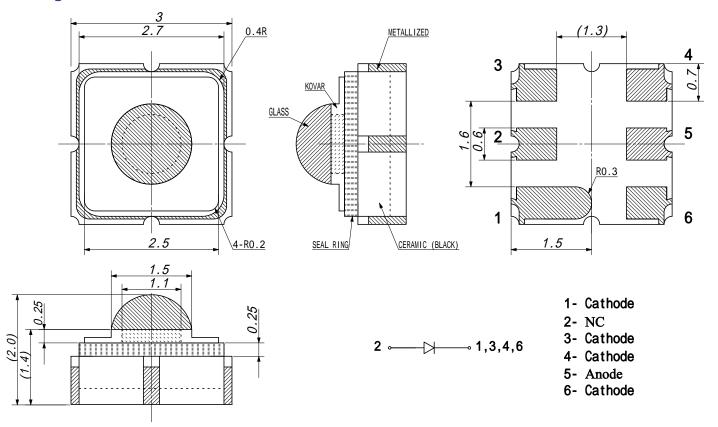
*1: Tw=10µsec, T=10msec

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT			
Forward Voltage	VF	IF=20mA		2.85		V			
Power Output	PO	IF=20mA		0.85		mW			
Reverse Current	IR	VR=5V				μΑ			
Peak Emission Wavelength	λρ	IF=20mA		466		nm			
Dominant Emission Wavelength	λd	IF=20mA		471		nm			
Spectral Line Half Width	Δλ	IF=20mA		23		nm			
Half Intensity Beam Angle	Θ	IF=20mA		15		deg			

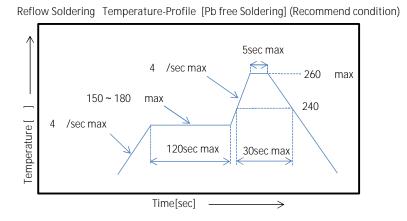
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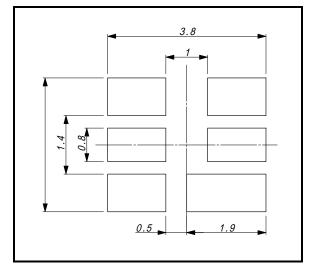


Package Dimensions



Recommended Soldering Pattern [mm]



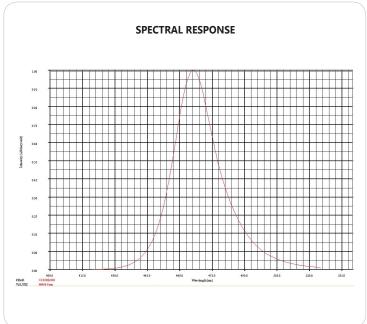


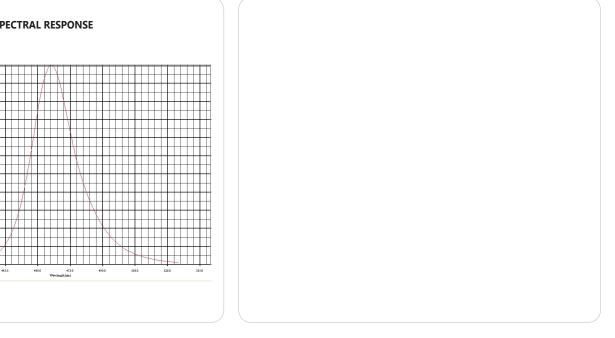
Unit: mm, Tolerance: ±0.2

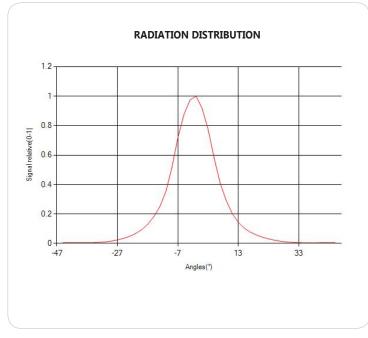
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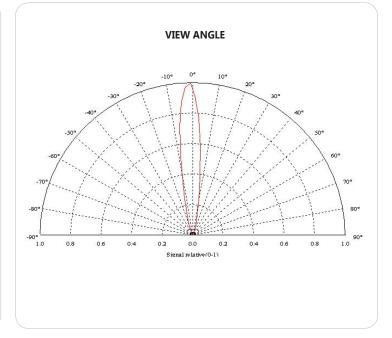
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