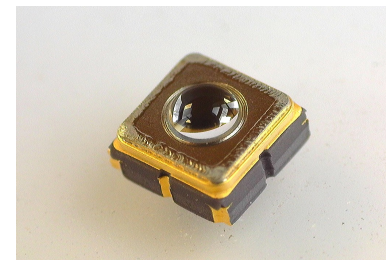


Peak Emission Wavelength: 650nm

The MTPS7065SMR1-UR is a Red Point Source 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
- > Narrow View Angle
- > High Output Power
- > Hermetically Sealed Package
- > Emitting Window Dia. 150um

APPLICATIONS

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

Absolute Maximum Ratings (Ta=25°C)



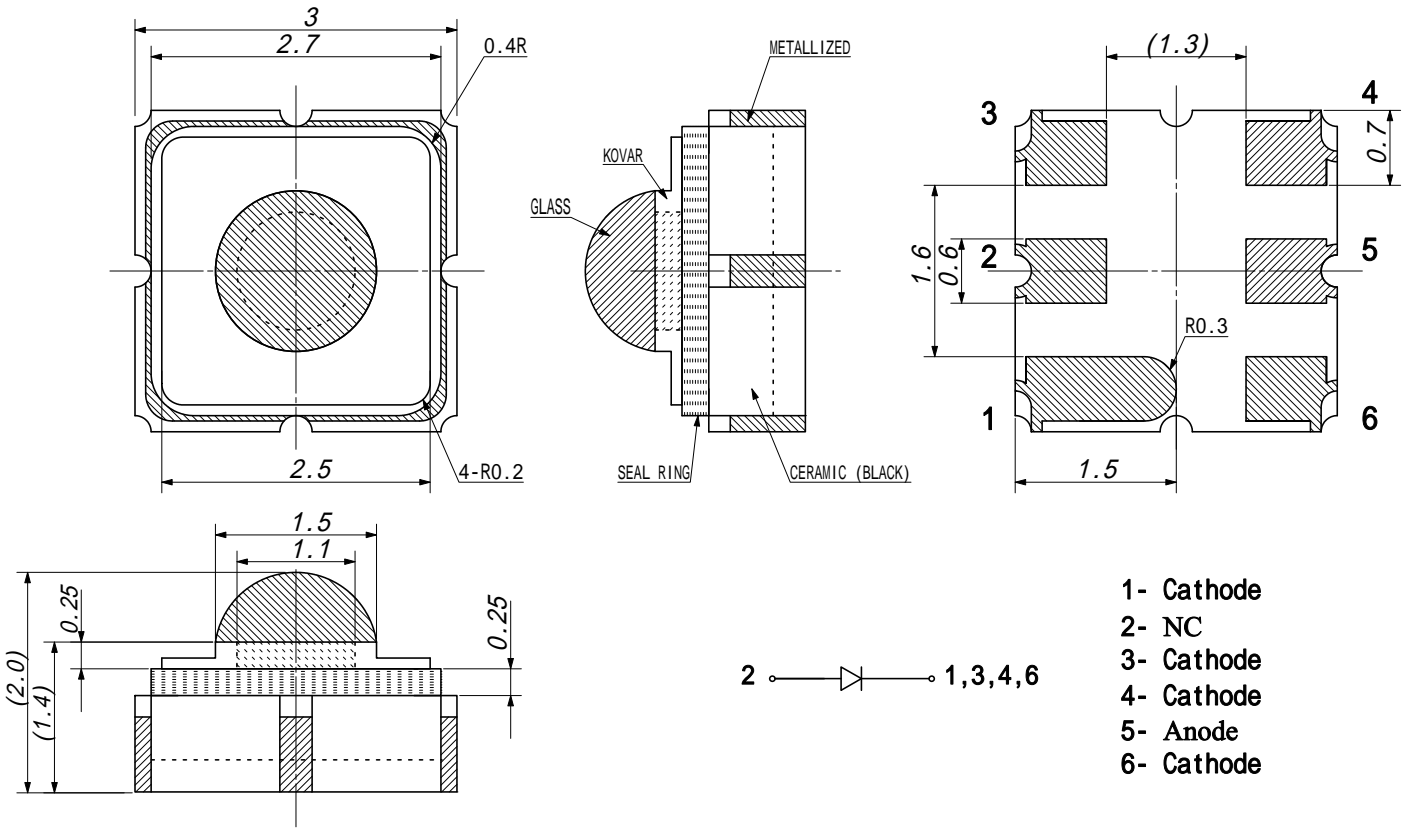
ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	50	mA
Forward Current (Pulse)*1	IFP	0.5	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	--	mW
Operating Temperature Range	Topr	-20 ~ +85	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C

*1: Tw=10μsec, T=10msec

Electrical & Optical Characteristics (Ta = 25°C)

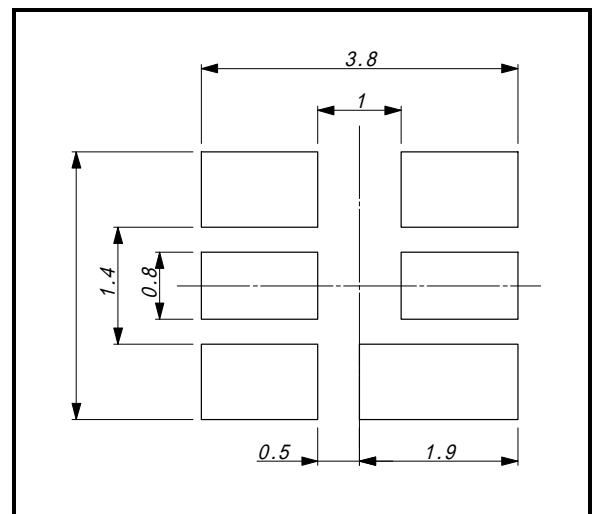
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	IF=20mA	--	1.90	--	V
Power Output	PO	IF=20mA	--	0.57	--	mW
Reverse Current	IR	VR=5V	--	--	--	μA
Peak Emission Wavelength	λp	IF=20mA	--	657	--	nm
Dominant Emission Wavelength	λd	IF=20mA	--	650	--	nm
Spectral Line Half Width	Δλ	IF=20mA	--	10	--	nm
Half Intensity Beam Angle	Θ	IF=20mA	--	8	--	deg

Package Dimensions



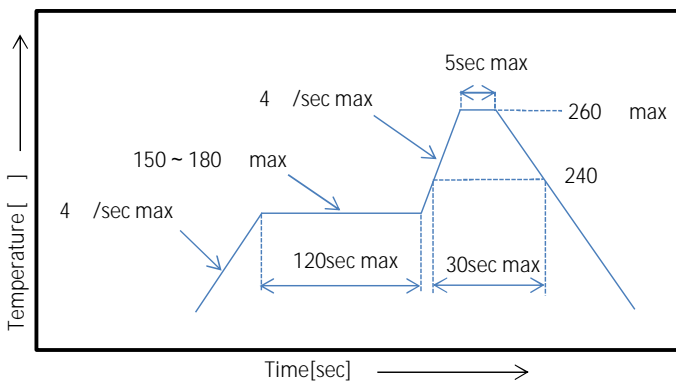
- 1- Cathode
- 2- NC
- 3- Cathode
- 4- Cathode
- 5- Anode
- 6- Cathode

Recommended Soldering Pattern [mm]



Unit: mm, Tolerance: ±0.2

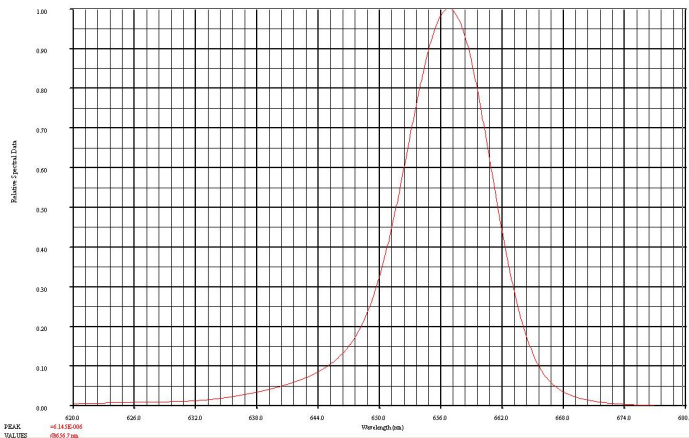
Reflow Soldering Temperature-Profile [Pb free Soldering] (Recommend condition)



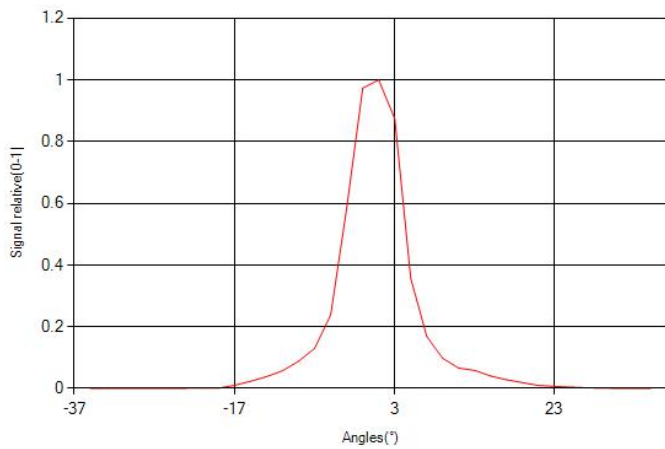
The information contained herein is subject to change without notice.

2022-12-8

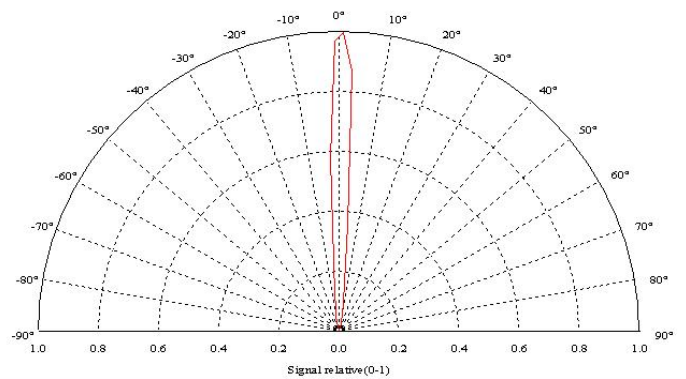
SPECTRAL RESPONSE



RADIATION DISTRIBUTION



VIEW ANGLE



The information contained herein is subject to change without notice.

2023-09-05