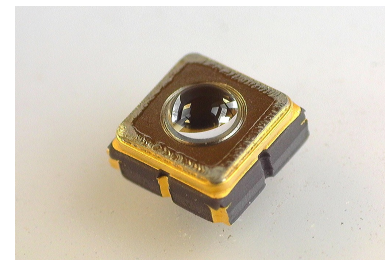


### Peak Emission Wavelength: 860nm

The MTPS8085MR1-IR is a Infrared 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)



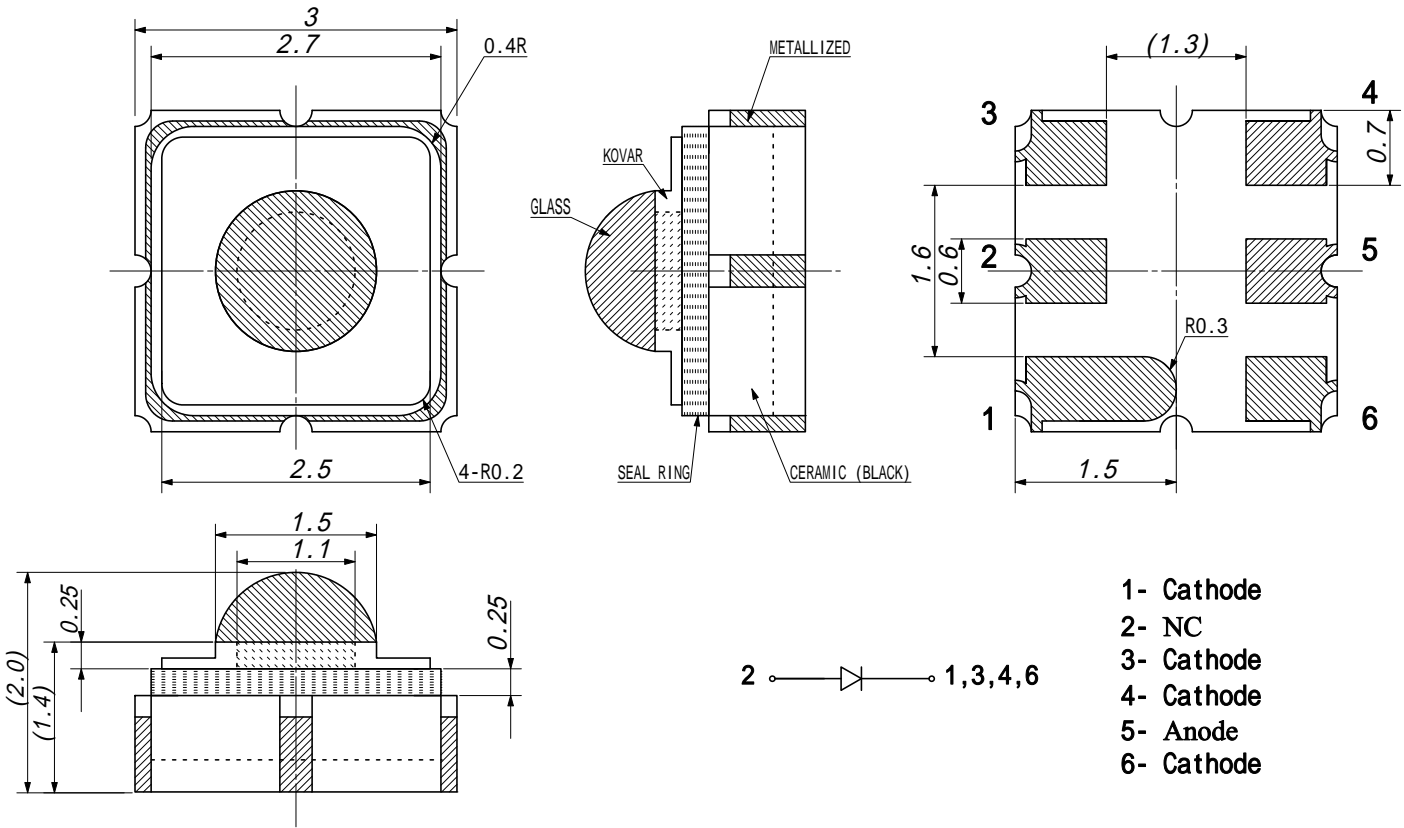
ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	100	mA
Forward Current (Pulse)*1	IFP	1	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	--	mW
Operating Temperature Range	Topr	-20 ~ +85	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C

\*1: Tw=10μsec, T=10msec

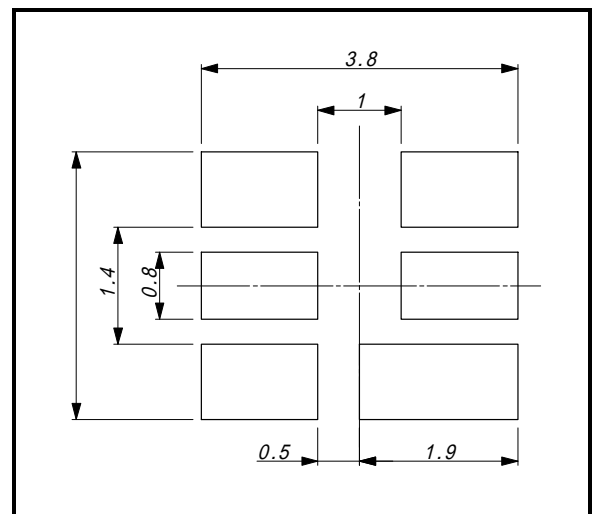
### Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	IF=50mA	--	1.56	--	V
Power Output	PO	IF=50mA	--	1.2	--	mW
Reverse Current	IR	VR=5V	--	--	--	μA
Peak Emission Wavelength	λp	IF=50mA	--	860	--	nm
Spectral Line Half Width	Δλ	IF=50mA	--	30	--	nm
Half Intensity Beam Angle	Θ	IF=50mA	--	9	--	deg

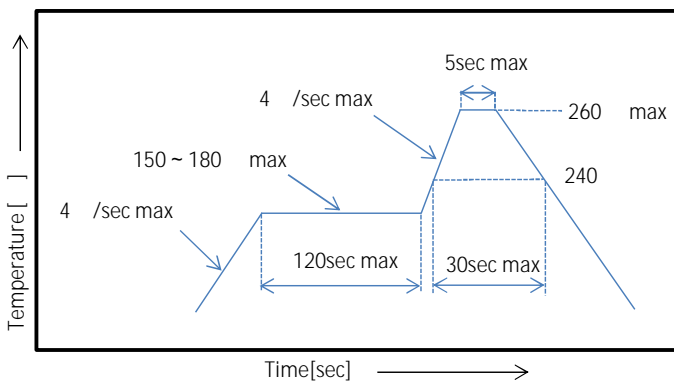
Package Dimensions



Recommended Soldering Pattern [mm]



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

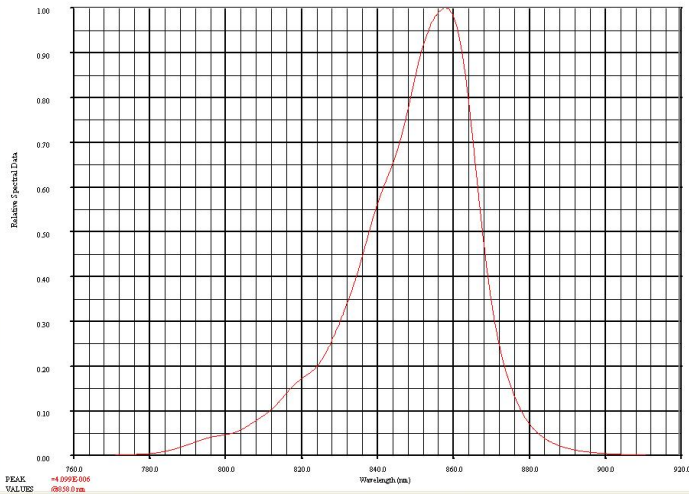


Unit: mm, Tolerance: ±0.2

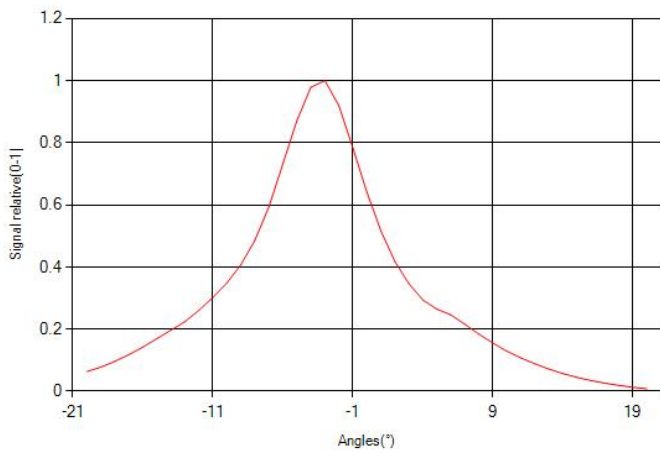
The information contained herein is subject to change without notice.

2023-09-05

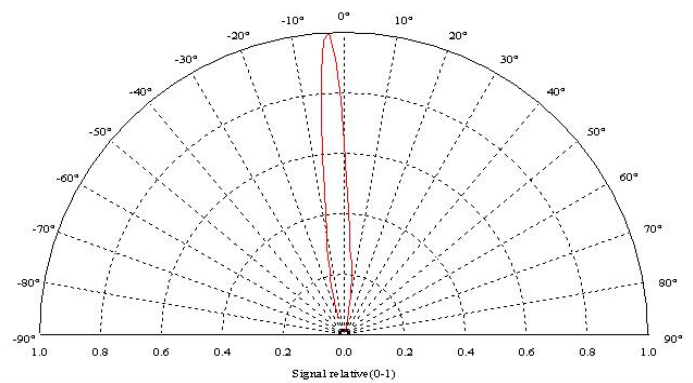
**SPECTRAL RESPONSE**



**RADIATION DISTRIBUTION**



**VIEW ANGLE**



The information contained herein is subject to change without notice.

2023-09-05