Marktech Optoelectronics

Infrared Point Source Emitter

Product No: **MTPS3085MT**

Peak Emission Wavelength: 855nm

The 850nm Point Source Series is designed for applications requiring high accuracy and precision as well as uniform spectral emission. Custom package solutions and sorting are available.



FEATURES

> PLCC-4 Package
> Emitting Window Diameter Φ 50µm
> High Reliability / High Output Power

APPLICATIONS

> Optical Scanning
> Linear & Rotary Encoder
> Edge Sensing
> Optical Sensors

Absolute Maximum Ratings (Ta=25°C)

ITEMS	SYMBOL	RATINGS	UNIT
Forward Current	IF	50	mA
Forward Current (Pulse)*1	IFP	200	mA
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≤100µsec [4% duty].

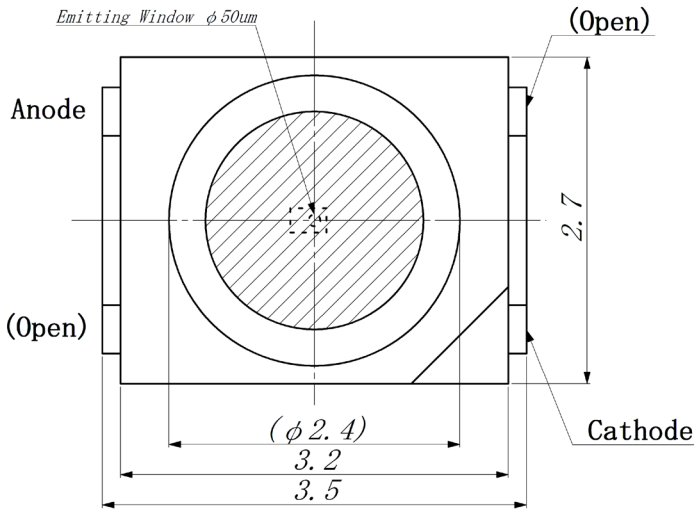
Electrical & Optical Characteristics (Ta = 25°C)

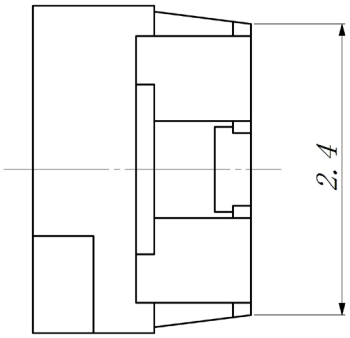
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=20mA	2.0	3.0	--	mW
Power Output*1	PO	IFP=200mA	8.0	--	--	mW
Forward Voltage	VF	IF=20mA	--	1.85	2.2	V
Reverse Current	IR	VR=5V	--	--	100	µA
Peak Emission Wavelength	λp	IF=20mA	--	855	--	nm
Spectral Line Half Width	Δλ	IF=20mA	--	40	--	nm
Half Intensity Beam Angle	Θ	IF=20mA	--	±50	--	deg

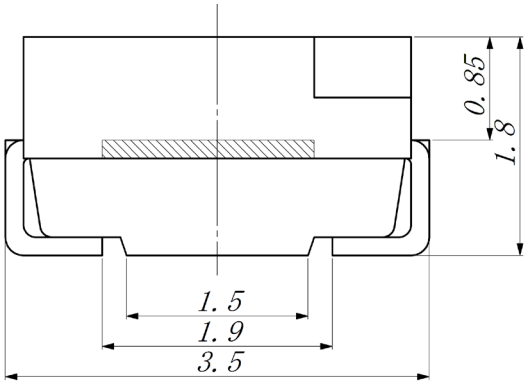
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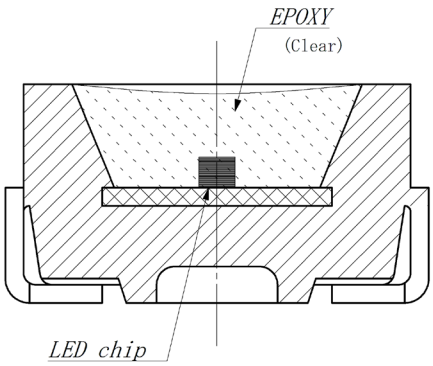
2011-05-23

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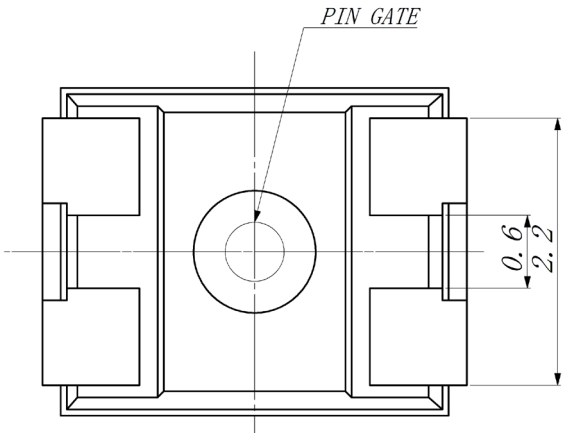


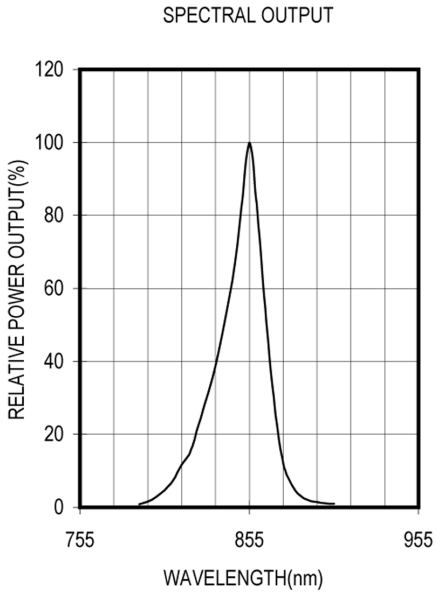


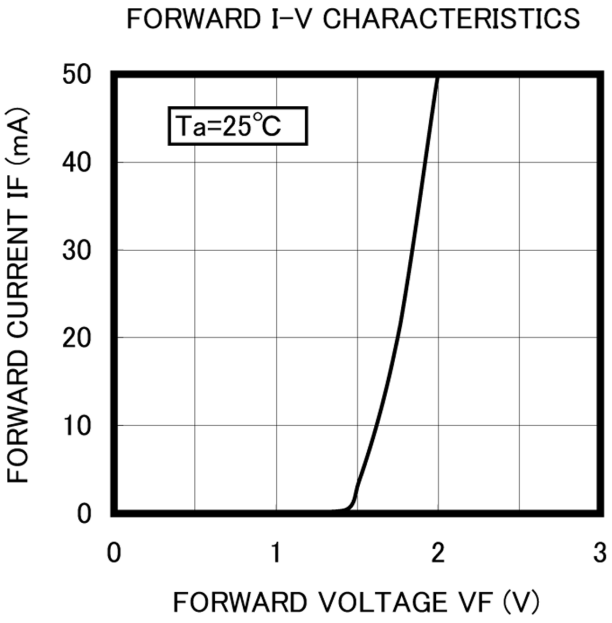


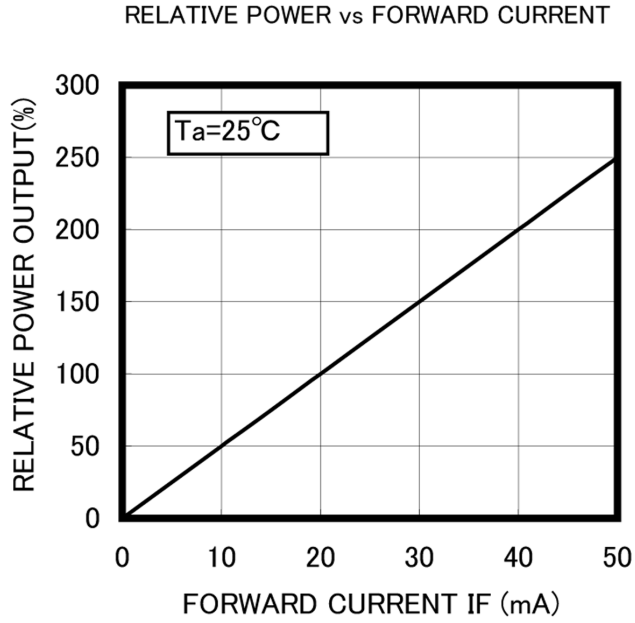
Unit: mm, Tolerance: ±0.2

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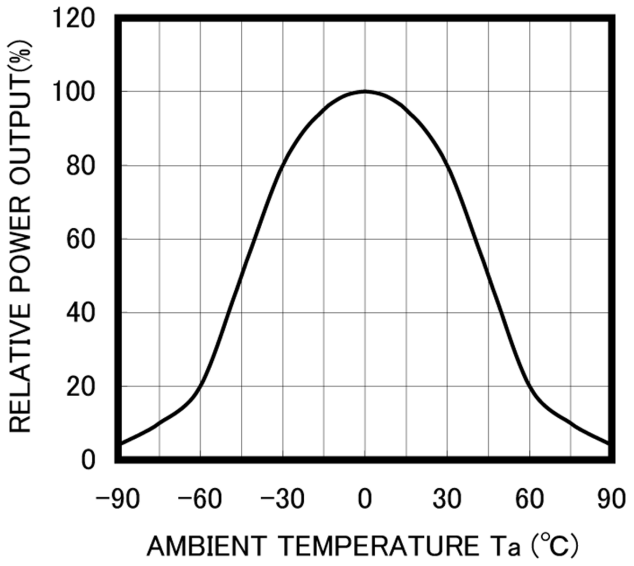




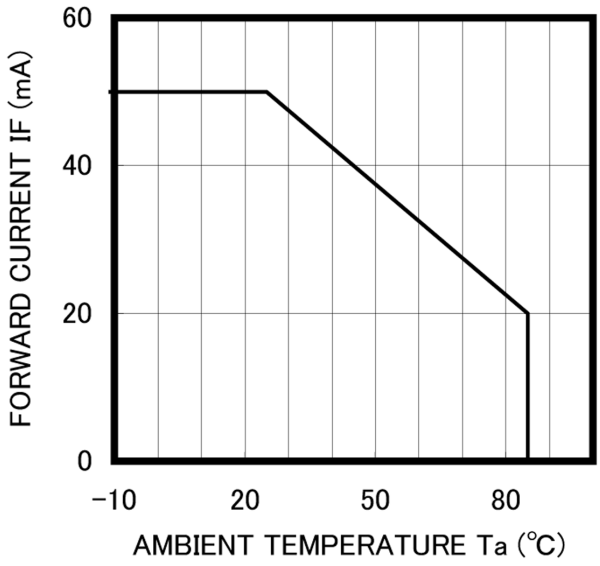
Unite: mm, Tolerance: ±0.2

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RADIATION PATTERN
IF=20mA



THERMAL DERATING CURVE



The information contained herein is subject to change without notice.

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