Marktech Optoelectronics

Infrared Point Source Emitter

Product No: **MTPS8085CP**

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

> Ceramic Dome Surface Mount 3.5×2.2×1.91
> Emitting Window Diameter Φ 150μm
> Extremely Narrow Radiation Pattern
> 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 (DC)	IF	60	mA
Forward Current (Pulse)*1	IFP	0.4	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	110	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
Power Output	PO	IF=20mA	--	2.5	--	mW
Forward Voltage	VF	IF=20mA	--	1.7	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	--	±6	--	deg

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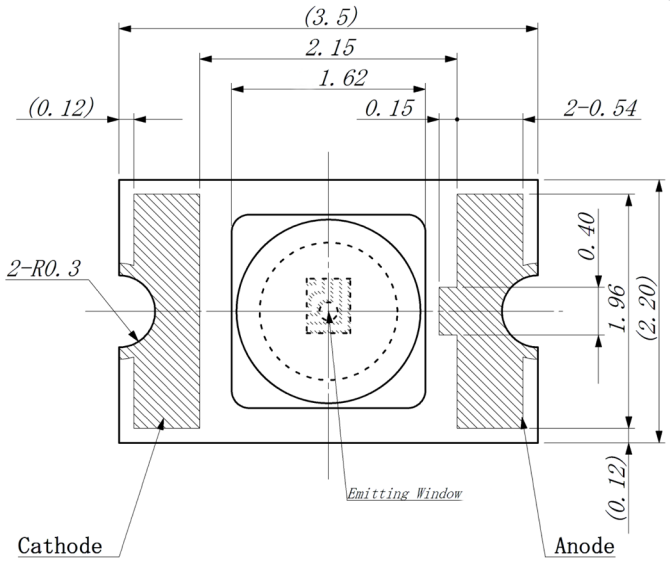

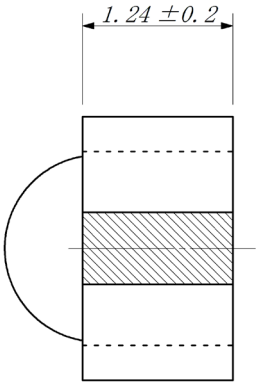

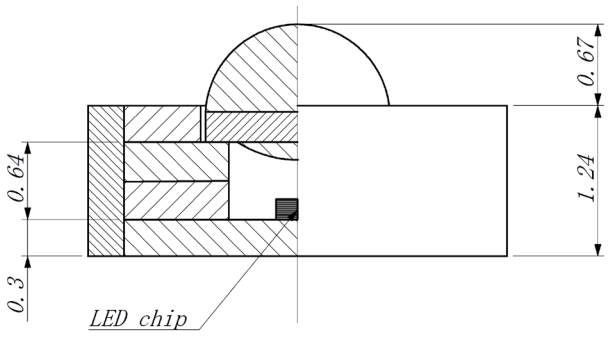

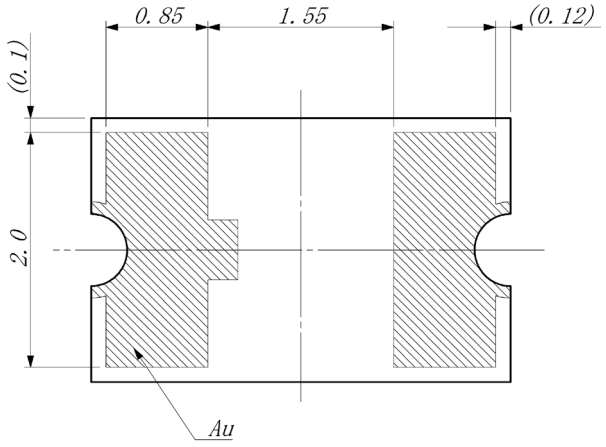

Unit: mm, Tolerance: ±0.2

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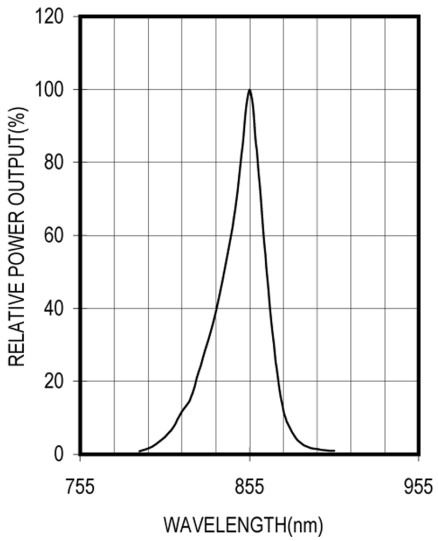
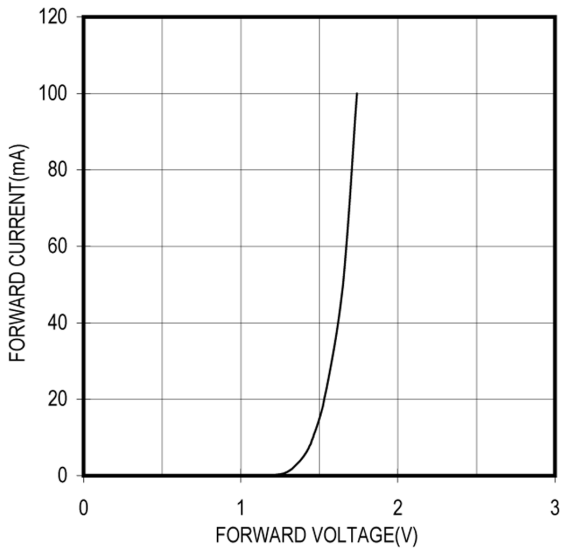
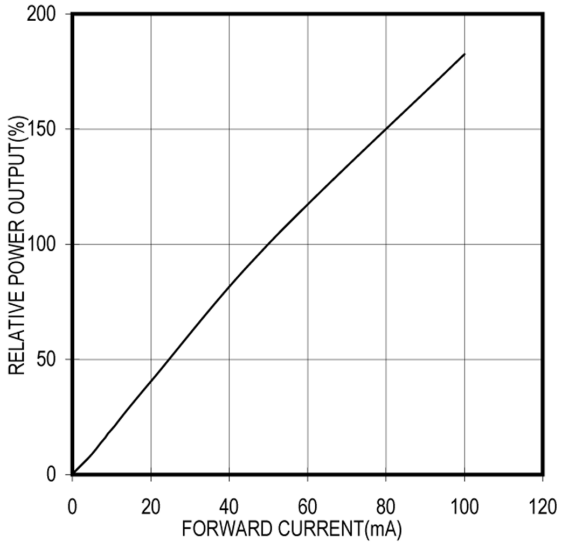
SPECTRAL OUTPUT



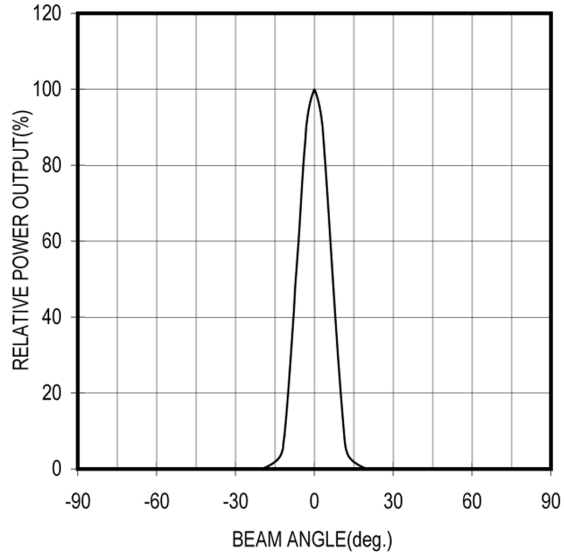
FORWARD I-V CHARACTERISTICS



RELATIVE POWER vs FORWARD CURRENT



RADIATION PATTERN



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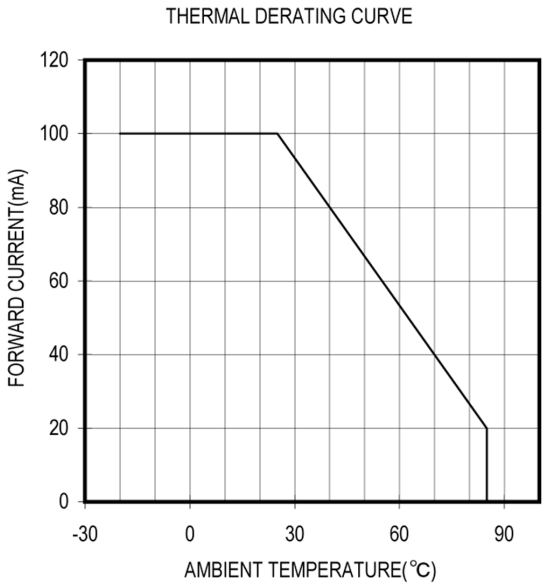

The information contained herein is subject to change without notice.

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