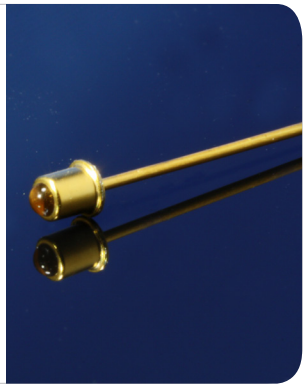
Marktech Optoelectronics

Visible Red Point Source Emitter

Product No: **MTPS9062PT**

Peak Emission Wavelength: 640nm

The 640nm Point Source Series is designed for applications requiring high accurary and precision. Custom package solutions and sorting are available.



FEATURES

> Hermetically Sealed Pigtail Package
> Emitting Window Diameter Φ 25μm
> Gold Plated Dome Lens
> High Reliability / High Output Power
> Extremely Narrow Radiation Pattern

APPLICATIONS

> Optical Sensing / Optical Instruments
> Linear & Rotary Encoder
> Machine Vision / CCD

Absolute Maximum Ratings (Ta=25°C)

ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	15	mA
Forward Current (Pulse)*1	IFP	30	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	35	mW
Operating Temperature Range	Topr	-20 ~ +85	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C
Lead Soldering Temperature*2	Tls	260	°C

*1: Tw=10μsec, T=10msec; *2: Time 5 Sec max, Position: Up to 3mm from the body.

Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=5mA	--	15	--	μW
Forward Voltage	VF	IF=5mA	--	2.0	2.4	V
Reverse Current	IR	VR=5V	--	--	100	μA
Peak Emission Wavelength	λp	IF=5mA	--	640	--	nm
Spectral Line Half Width	Δλ	IF=5mA	--	20	--	nm
Half Intensity Beam Angle	Θ	IF=5mA	--	±5	--	deg
Rise Time	Tr	IFP=5mA	--	40	--	nS
Fall Time	Tf	IFP=5mA	--	30	--	nS

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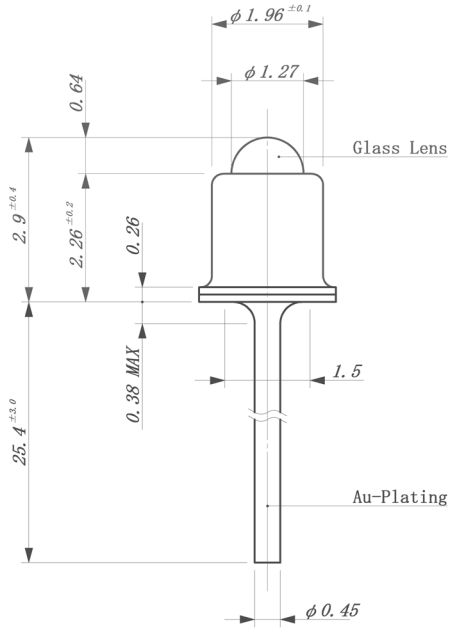
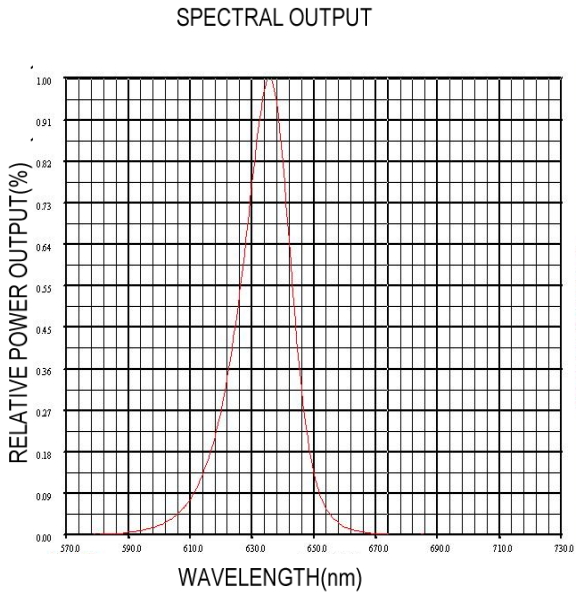
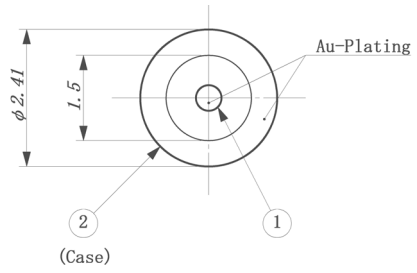
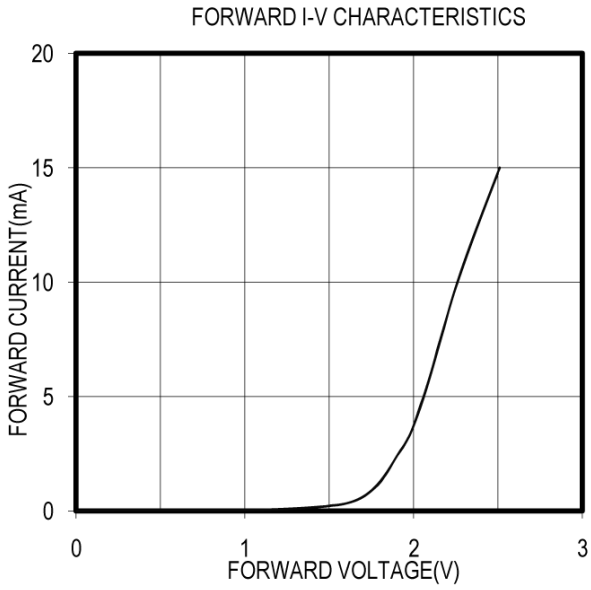






① Anode ② Cathode



Unit: mm, Tolerance: ±0.2

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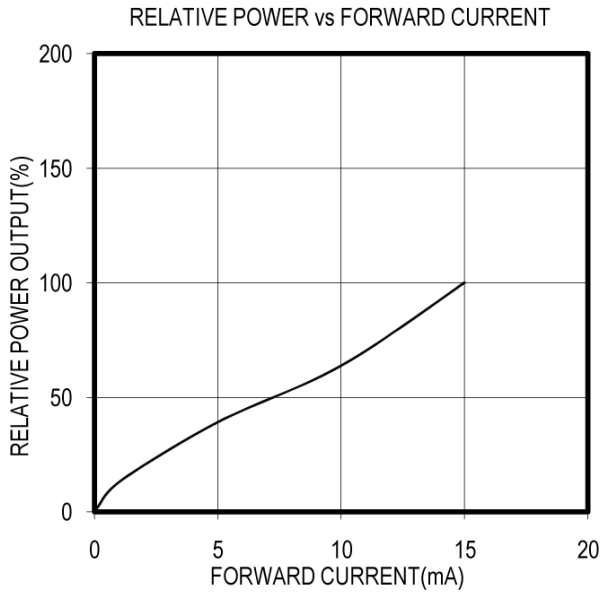

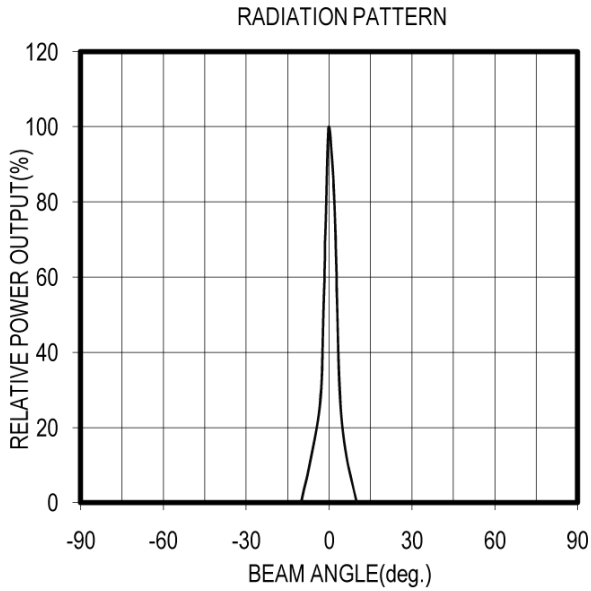

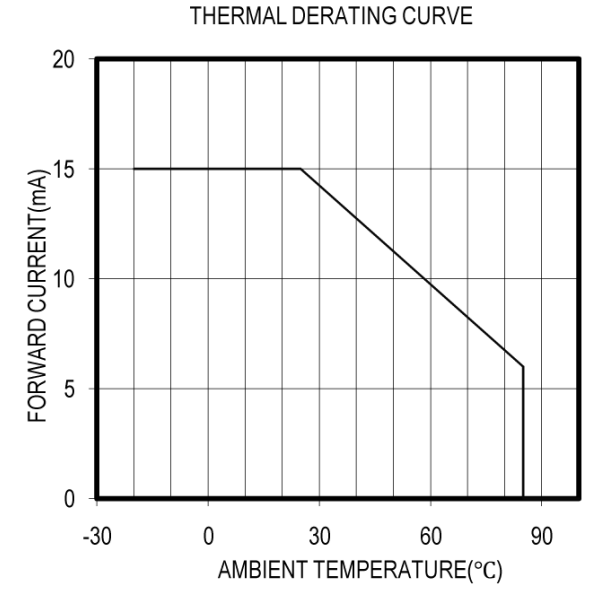

The information contained herein is subject to change without notice.

2022-08-02