Marktech Optoelectronics

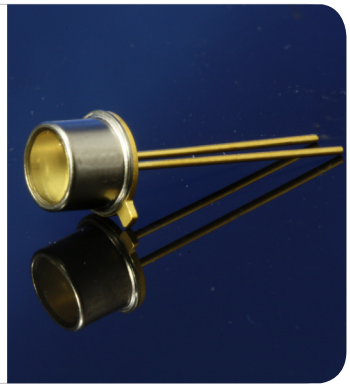
Preliminary

# Infrared Point Source Emitter

Product No: **MTPS2085WC**

## Peak Emission Wavelength: 855nm

The 855nm 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**

> Hermetically Sealed TO-46
> Emitting Window Diameter Φ 35μm
> Gold Plated Flat Top Can
> 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 | 30 | mA |
| Reverse Voltage | VR | 3 | V |
| Operating Temperature Range | Topr | -20 ~ +80 | °C |
| Storage Temperature Range | Tstg | -30 ~ +100 | °C |

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

| ITEMS | SYMBOL | CONDITIONS | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|---|
| Power Output | PO | IF=50mA | -- | 0.98 | -- | mW |
| Forward Voltage | VF | IF=50mA | -- | 1.96 | 2.4 | V |
| Reverse Current | IR | VR=5V | -- | -- | 10 | μA |
| Peak Emission Wavelength | λp | IF=50mA | -- | 855 | -- | nm |
| Spectral Line Half Width | Δλ | IF=50mA | -- | 40 | -- | nm |
| Half Intensity Beam Angle | Θ | IF=50mA | -- | ±107 | -- | deg |

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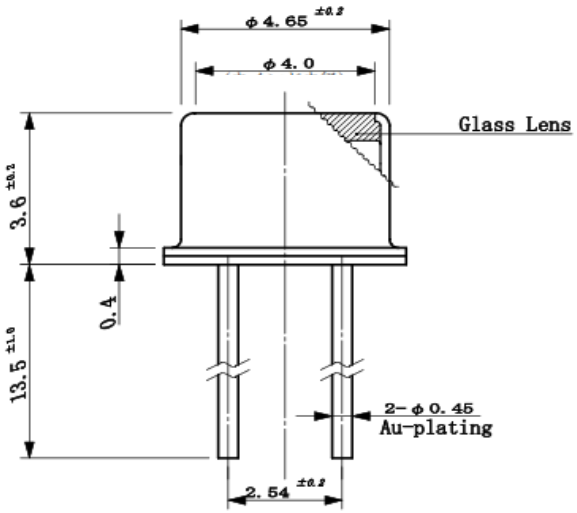


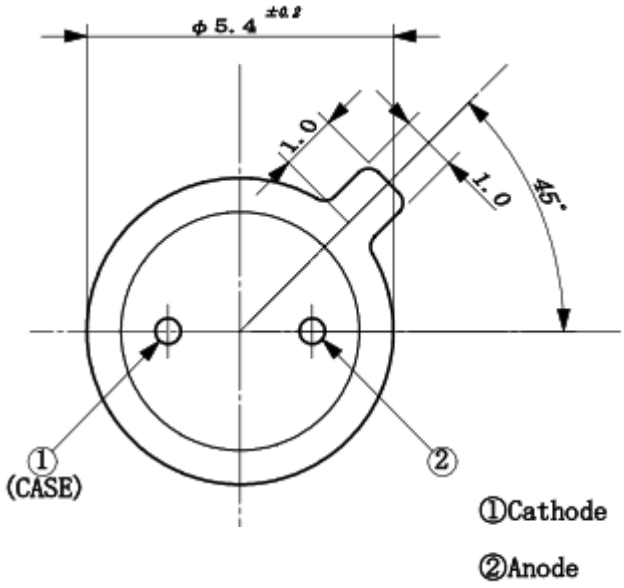


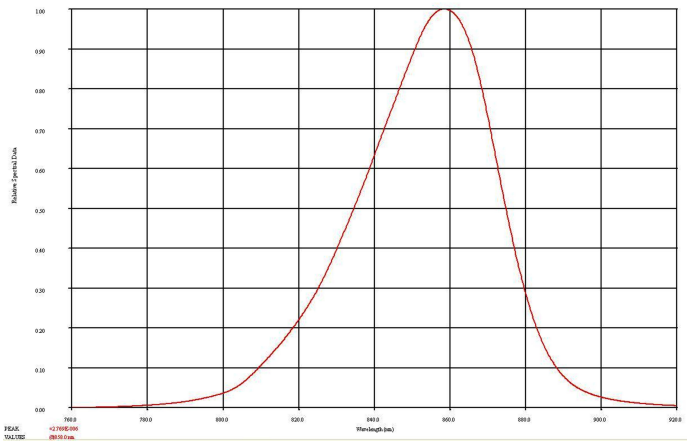

Unit: mm, Tolerance: ±0.2

The information contained herein is subject to change without notice.

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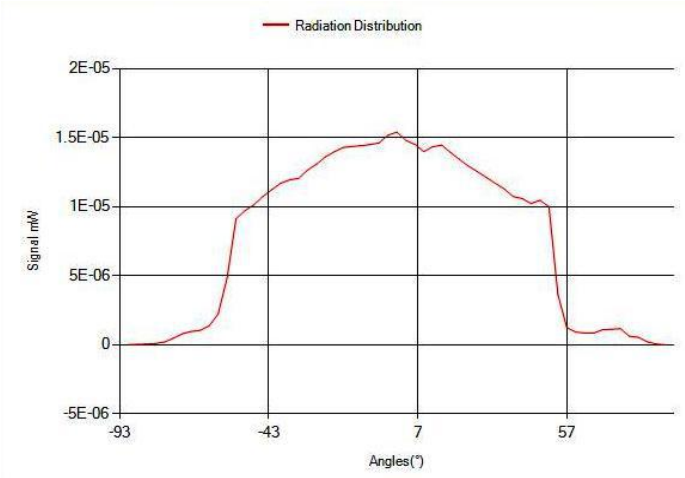
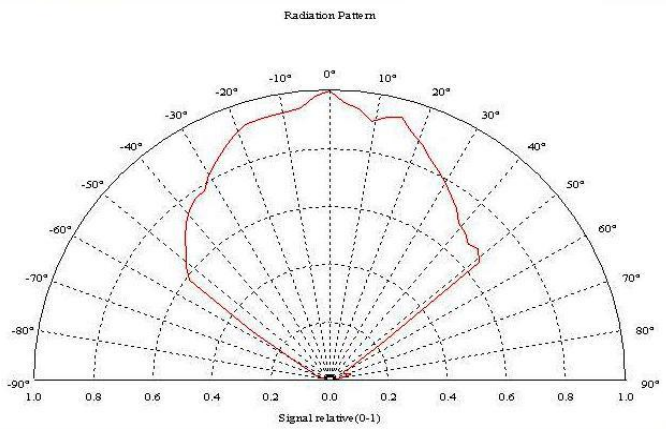
## Radiation Distribution




## View Angle

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