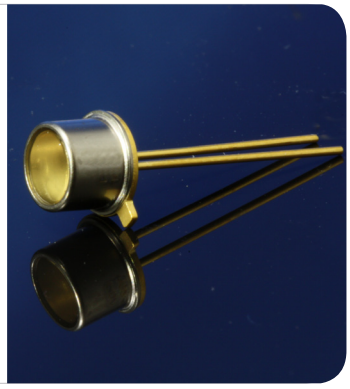
Marktech Optoelectronics

Infrared Point Source Emitter

Product No: **MTPS3085WC1**

Peak Emission Wavelength: 850nm

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

> Hermetically Sealed TO-46
> Emitting Window Diameter Φ 50µm
> 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)

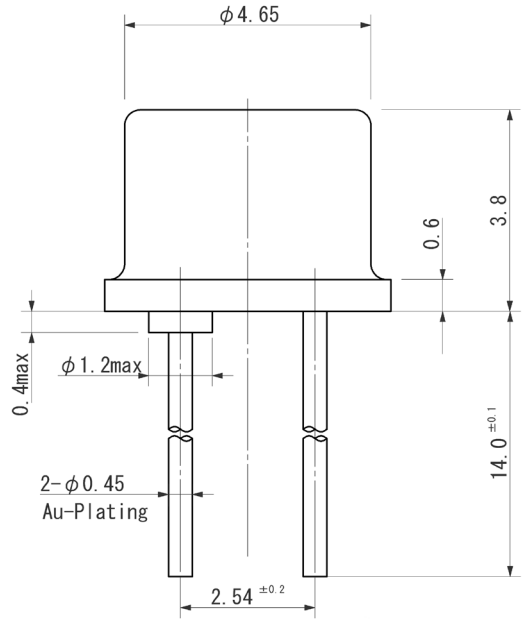
ITEMS	SYMBOL	RATINGS	UNIT
Forward Current (DC)	IF	80	mA
Forward Current (Pulse)*1	IFP	0.4	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	130	mW
Operating Temperature Range	Topr	-25 ~ +85	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C
Junction Temperature	Tj	125	°C
Lead Soldering Temperature*2	Tls	260	°C

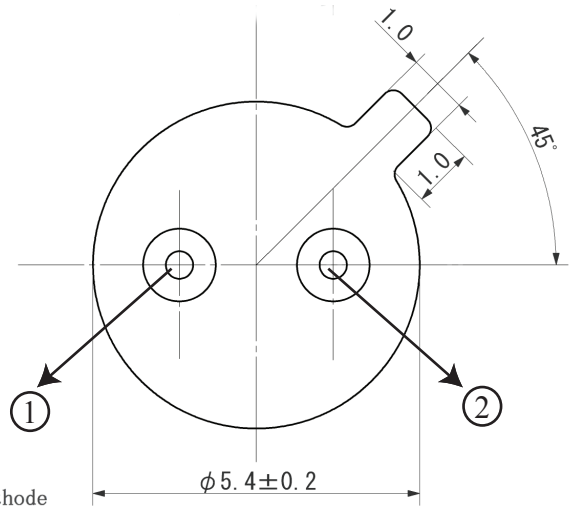
*1: Tw=10µsec, T=10msec; *2: Time 5 Sec max, Position: Up to 3mm from the body.

Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Power Output	PO	IF=50mA	1.6	2.1	--	mW
Forward Voltage	VF	IF=50mA	--	2.0	2.4	V
Reverse Current	IR	VR=5V	--	--	10	µA
Peak Emission Wavelength	λp	IF=50mA	--	850	--	nm
Spectral Line Half Width	Δλ	IF=50mA	--	40	--	nm
Half Intensity Beam Angle	Θ	IF=50mA	--	±45	--	deg

2012-01-18





Unit: mm, Tolerance: ±0.2

The information contained herein is subject to change without notice.

2012-01-18