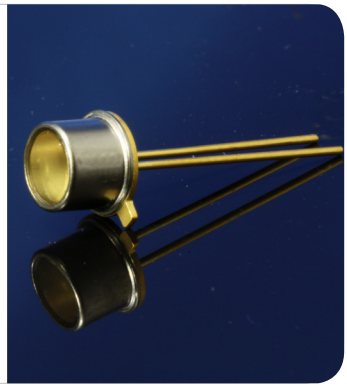
Marktech Optoelectronics

Photo Diode

Product No: **MTD5052W**

Peak Sensitivity Wavelength: 525nm

Visible Photo Diode enhanced for the Blue/Green Spectrum



FEATURES

> Hermetically Sealed TO-18
> Gold Plated Flat Top Can
> High Reliability
> Wide Angular Response

APPLICATIONS

> Optical Analytics
> Optical Switches
> Light Barriers
> Currency Validation

Absolute Maximum Ratings (Ta=25°C)

ITEMS	SYMBOL	RATINGS	UNIT
Reverse Voltage	VR	5	V
Operating Temperature Range	Topr	-20 ~ +85	°C
Storage Temperature Range	Tstg	-30 ~ +100	°C
Lead Soldering Temperature	Tls	260	°C

*1: Time 5 Sec max, Position: Up to 3mm from the body.

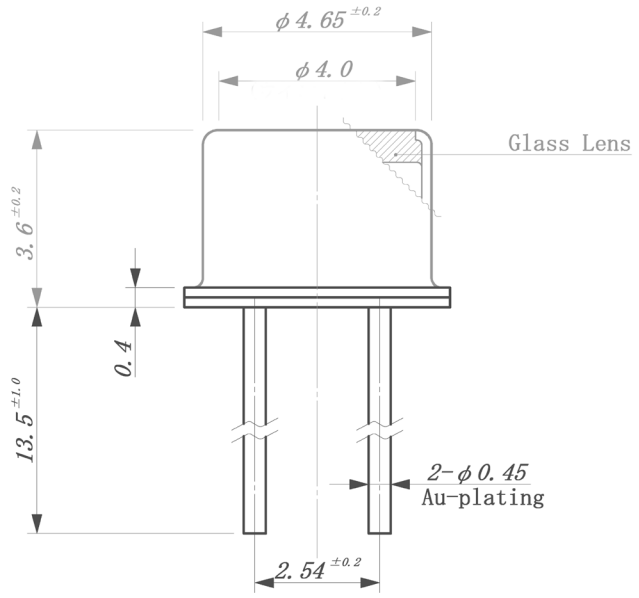
Electrical & Optical Characteristics (Ta = 25°C)

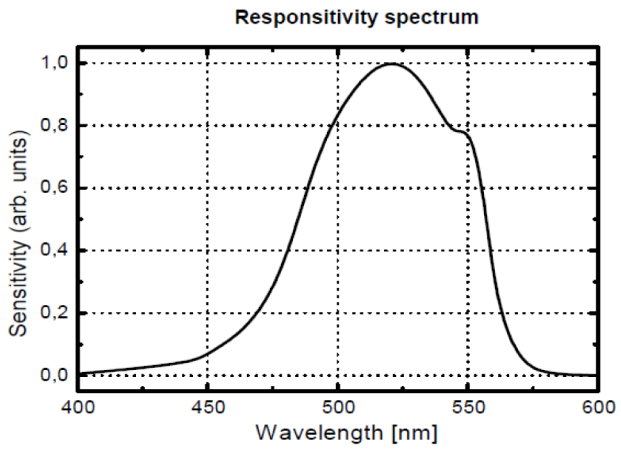
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Light Current	IL	*1	2.5	4.0	--	μA
Dark Current	ID	VR=5V	--	5	30	pA
Spectral Sensitivity	λ	--	--	410--580	--	nm
Peak Sensitivity Wavelength	λp	--	--	525	--	nm
Responsivity	S	*2	--	0.3	--	A/W
Angular Response	Θ	--	--	±55	--	deg

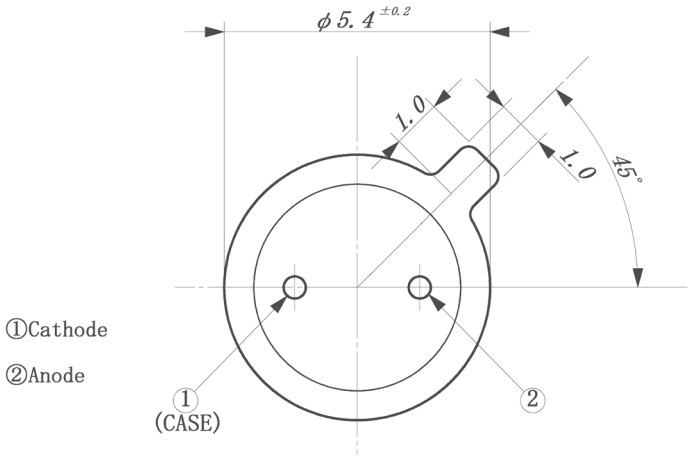
*1: VR=5V, λ=525nm, Ee=1mW/cm^2, *2: VR=0V, λ=525nm.

2011-07-20

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Unit: mm, Tolerance: ±0.2

The information contained herein is subject to change without notice.

2011-07-20