Preliminary

Marktech Optoelectronics

High Speed InGaAs PIN Photodiode

Product No: **MTPD2601SL-100**

Sensitivity Wavelength Range: 800nm~2600nm

The MTPD2601SL-100 from Marktech, a high sensitivity and high reliability product series, is ideally suited for Optical Communication devices. Custom packaging options for this die is also available.



FEATURES

> High Speed Response
> TO-46 Ball Lens Metal Can Package
> Active Area of 1.0mm Φ / High Sensitivity
> Spectral Range 800nm - 2600nm
> Hermetically Sealed

APPLICATIONS

> High Speed Optical Communications
> Industrial Controls
> Security
> Gas/Water Analysis
> Medical

Absolute Maximum Ratings (Ta=25°C)

lead-free RoHS

ITEMS	SYMBOL	RATINGS	UNIT
Active Area	Φ	1.0	mm
Operating Temperature Range	Topr	-40 to +85	°C
Storage Temperature Range	Tstg	-40 to +125	°C

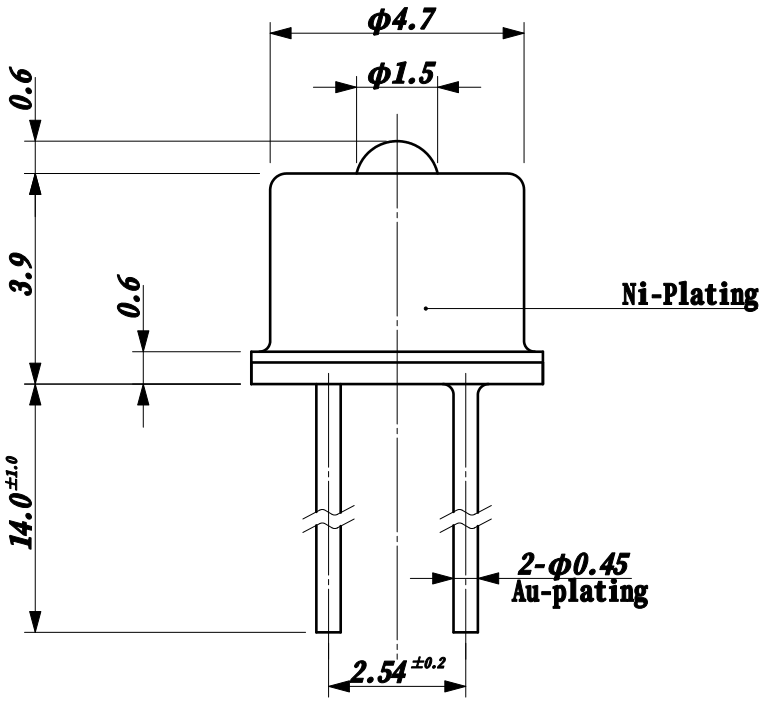
Electrical & Optical Characteristics (Ta = 25°C)

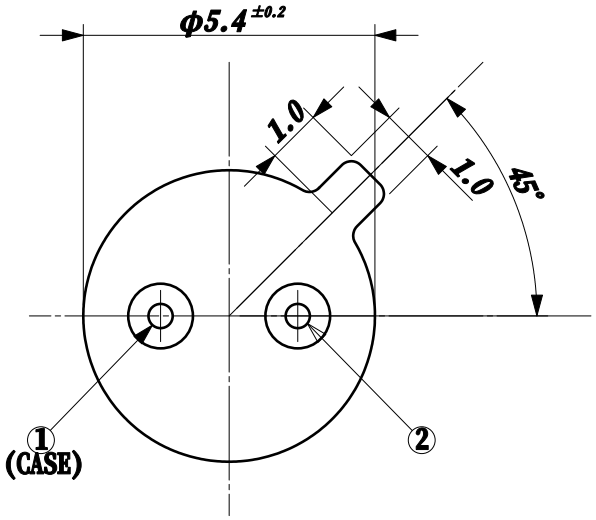
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Breakdown Voltage	VR	IR=100uA	--	--	1	V
Sensitivity Range	λ	VR=0V	800	--	2600	nm
Dark Current	ID	VR=0V	--	64	--	nA
Dark Current	ID	VR=1V	--	140	--	uA
Capacitance	C	VR=0V	--	800	--	pF
Capacitance	C	VR=1V	--	75	--	pF
Responsivity *1	R	λ=2400nm	--	1.24	--	A/W
Shunt Resistance	RS	VR=10mV	--	2.75	--	kOhm
Quantum Efficiency *1	QE	λ=1840nm	--	72	--	%

*1: As mounted on TO-46 header without resin coating or lens cap.

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Package Dimensions



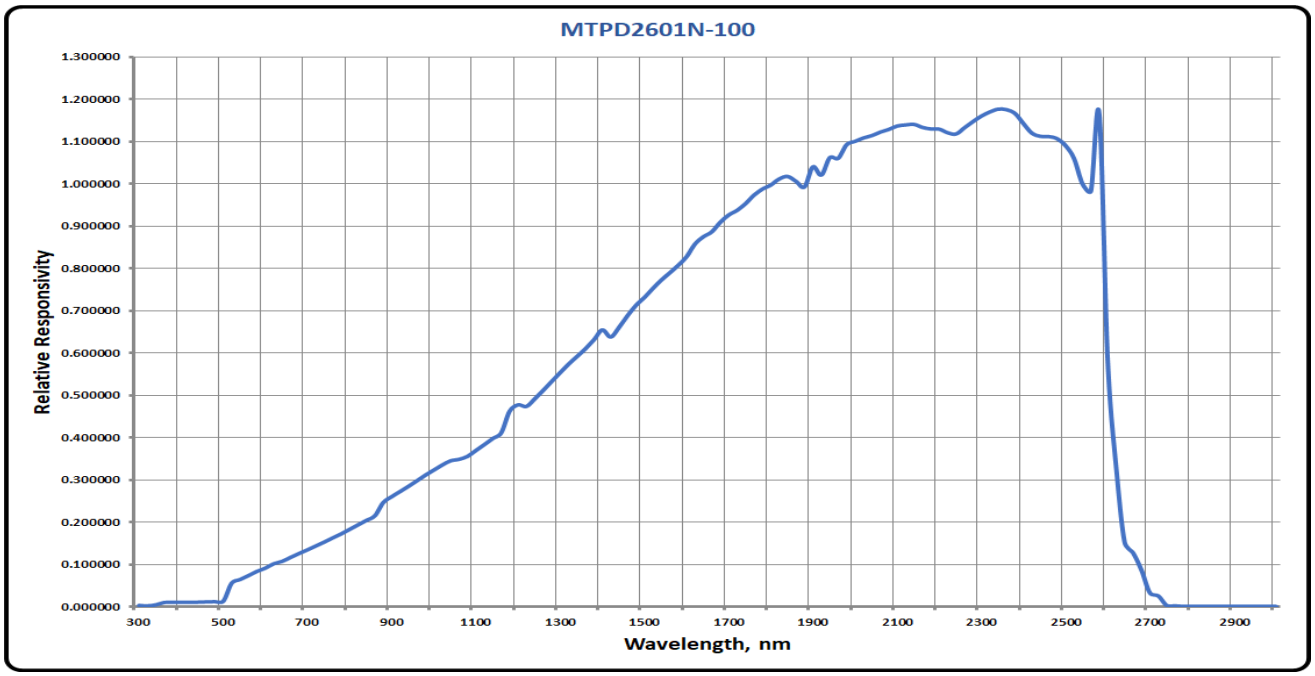


Unit: mm, Tolerance: ±0.2

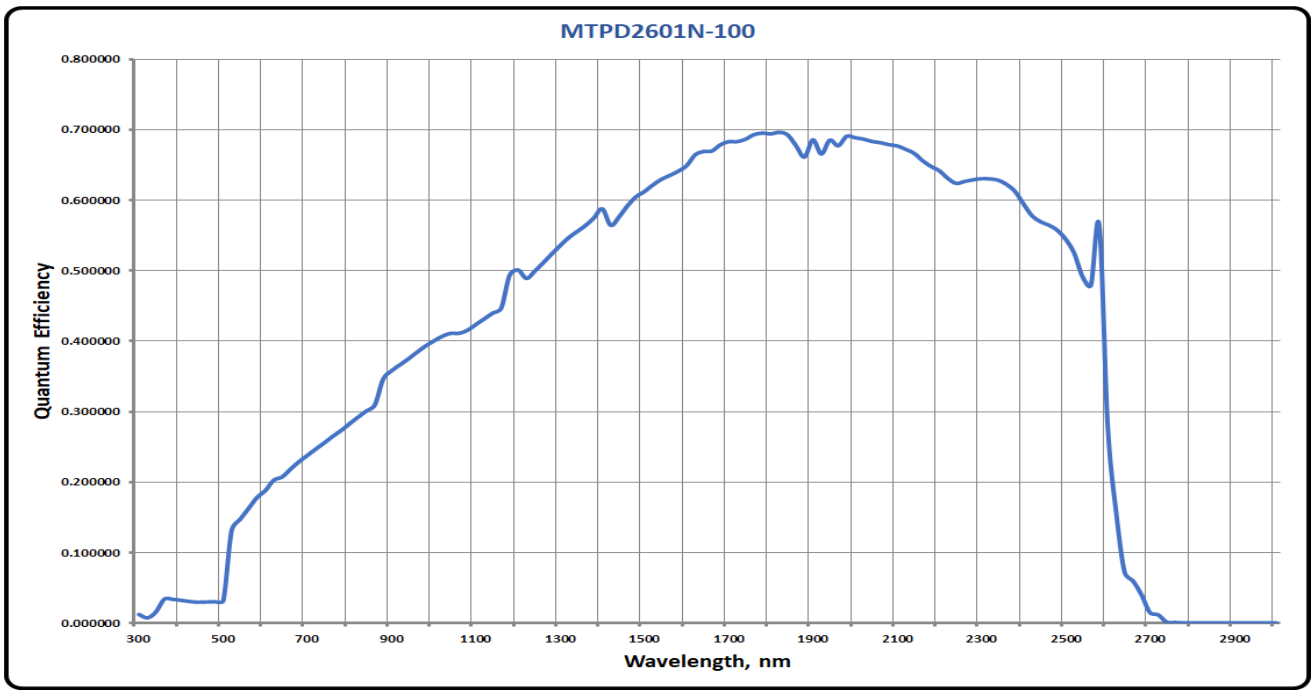
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Spectral Responsivity

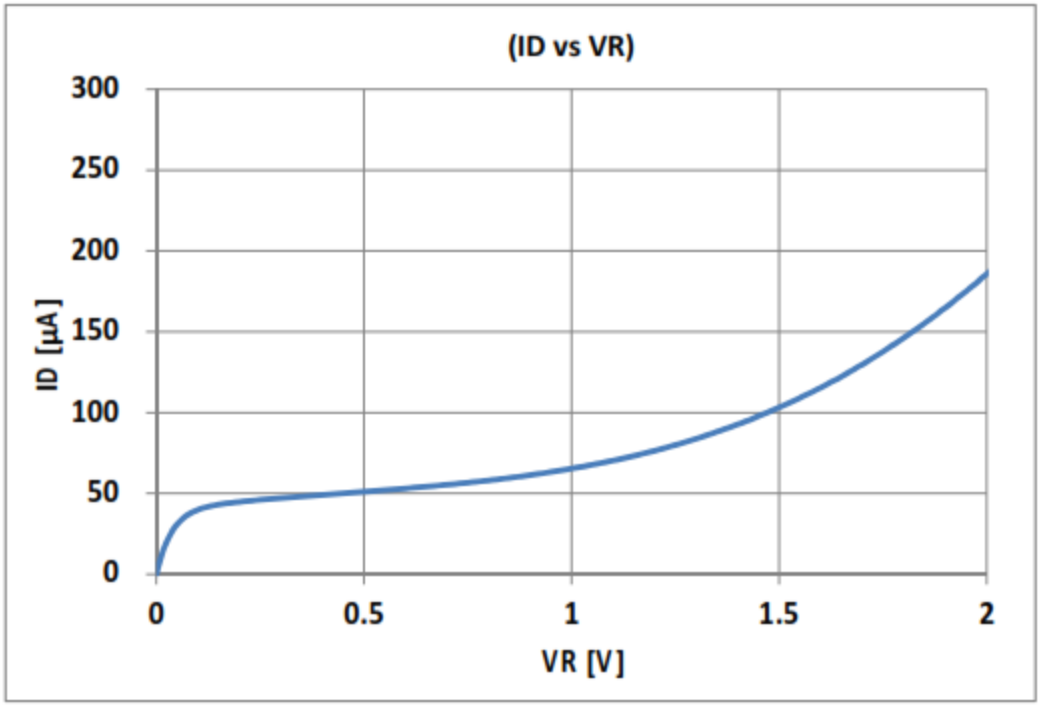


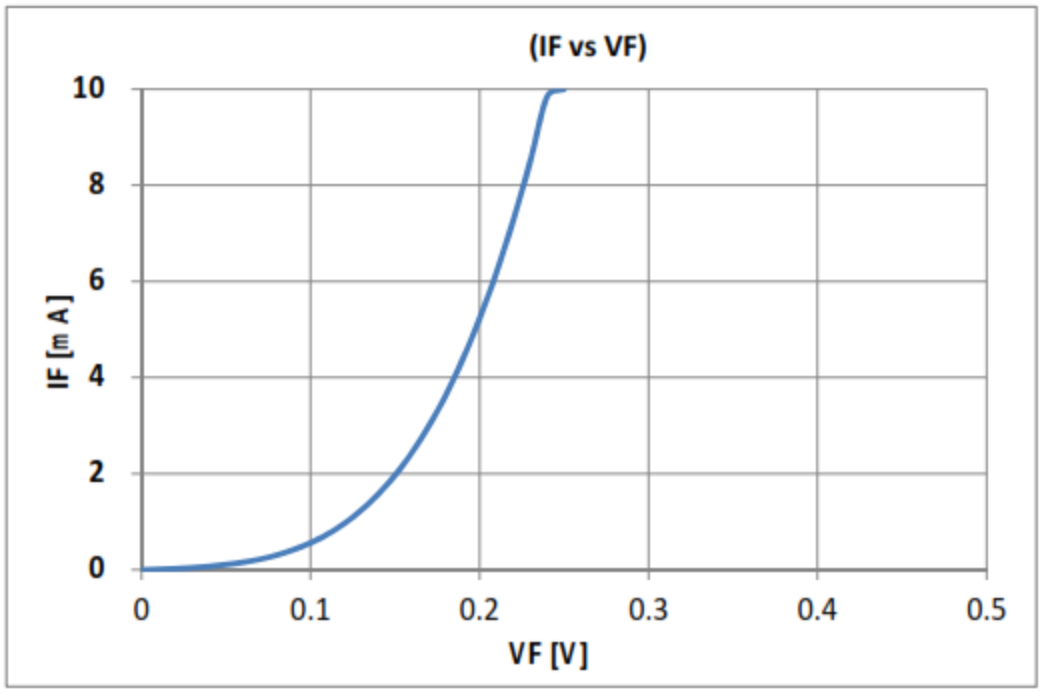
Quantum Efficiency



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Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

Marktech Optoelectronics:

MTE4110D4 MTE8008N3 MTE8800N1 MTE6114C2 MTE8600N2 MTAPD-06-009 MTPS3085SMR1-IR MTSM5416SMR2S MTE4600P-C MTD3910G-F3 MTE340F11-UV MTE8800W MT2118-G-A MTE325H21-UV MTE4110C5 MTE8560P-C MTPD3001D5-030 MTRS7010C MTD6000PT-T MTE340F13-UV MTE7063NK2-UR MTE8600MC MTPD1346D-010 MTPS3085WC1 MTAPD-06-001 MTD3910W MTE1300N MTRS0012C MTSM6414SMR2S MT5470E-OR