Preliminary

Marktech Optoelectronics

High Speed InGaAs PIN Photodiode

Product No: **MTPD2601K8-150**

Sensitivity Wavelength Range: 800nm~2600nm

The MTPD260K8-150 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-39 Hermetically Sealed Dome Lens Package
> Active Area of 1.5mm Φ / High Sensitivity
> Spectral Range 800nm - 2600nm

APPLICATIONS

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

Absolute Maximum Ratings (Ta=25°C)

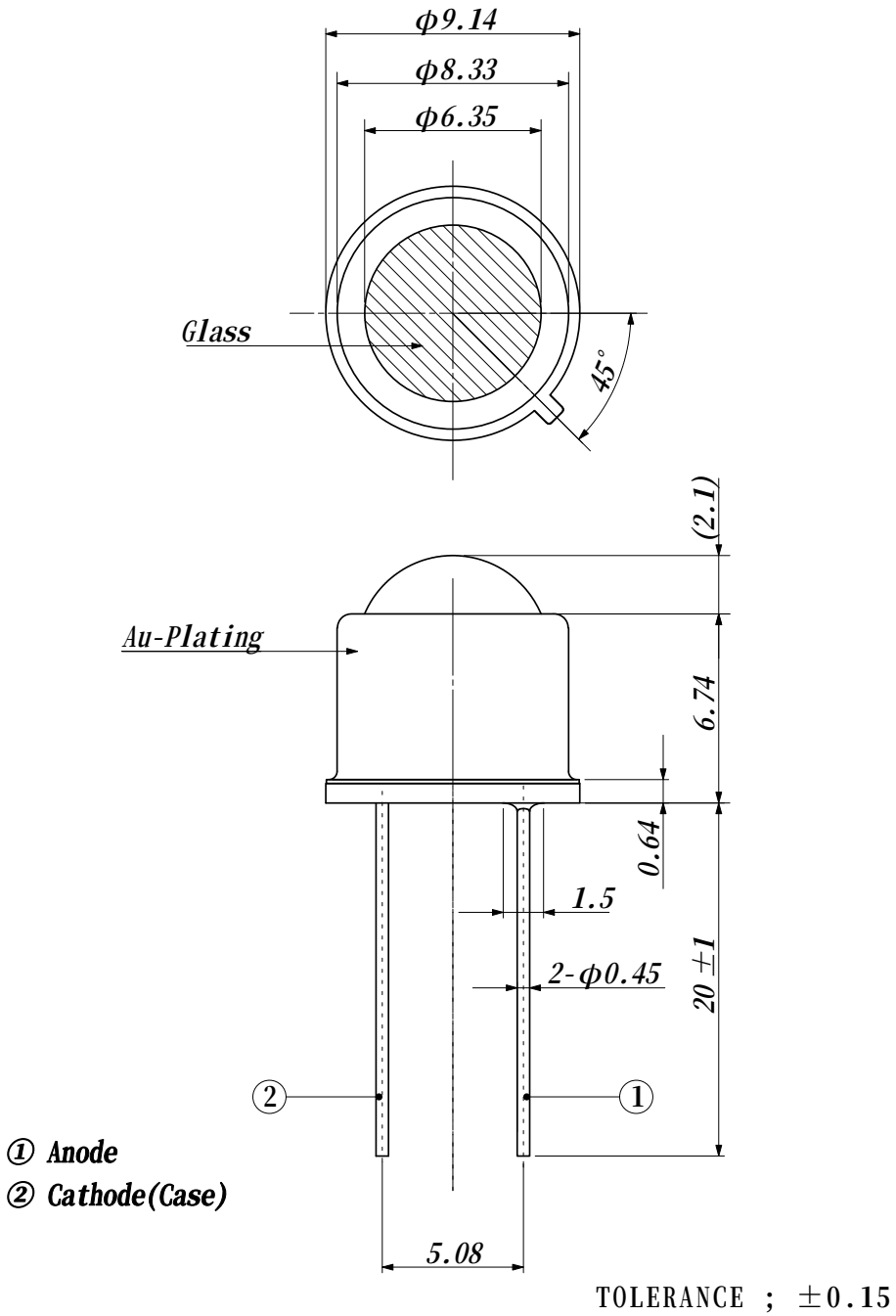
ITEMS	SYMBOL	RATINGS	UNIT
Active Area	Φ	1.5	mm
Operating Temperature Range	Topr	-40 to +85	°C
Storage Temperature Range	Tstg	-40 to +125	°C

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	--	150	--	nA
Dark Current	ID	VR=1V	--	350	--	uA
Capacitance	C	VR=0V	--	1500	--	pF
Capacitance	C	VR=1V	--	100	--	pF
Responsivity	R	λ=2400nm	--	1.24	--	A/W
Shunt Resistance	RS	VR=10mV	--	1.25	--	kOhm
Quantum Efficiency	QE	λ=1840nm	--	72	--	%

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Package Dimensions

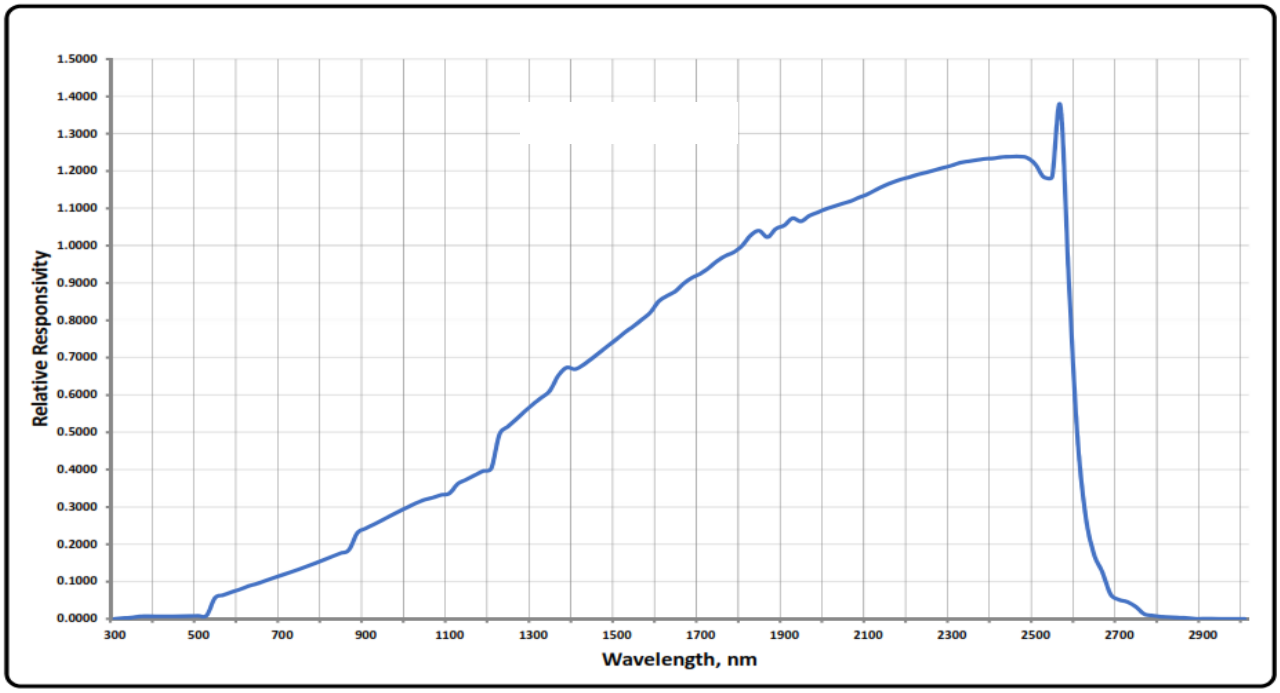


Unit: mm, Tolerance: ±0.2

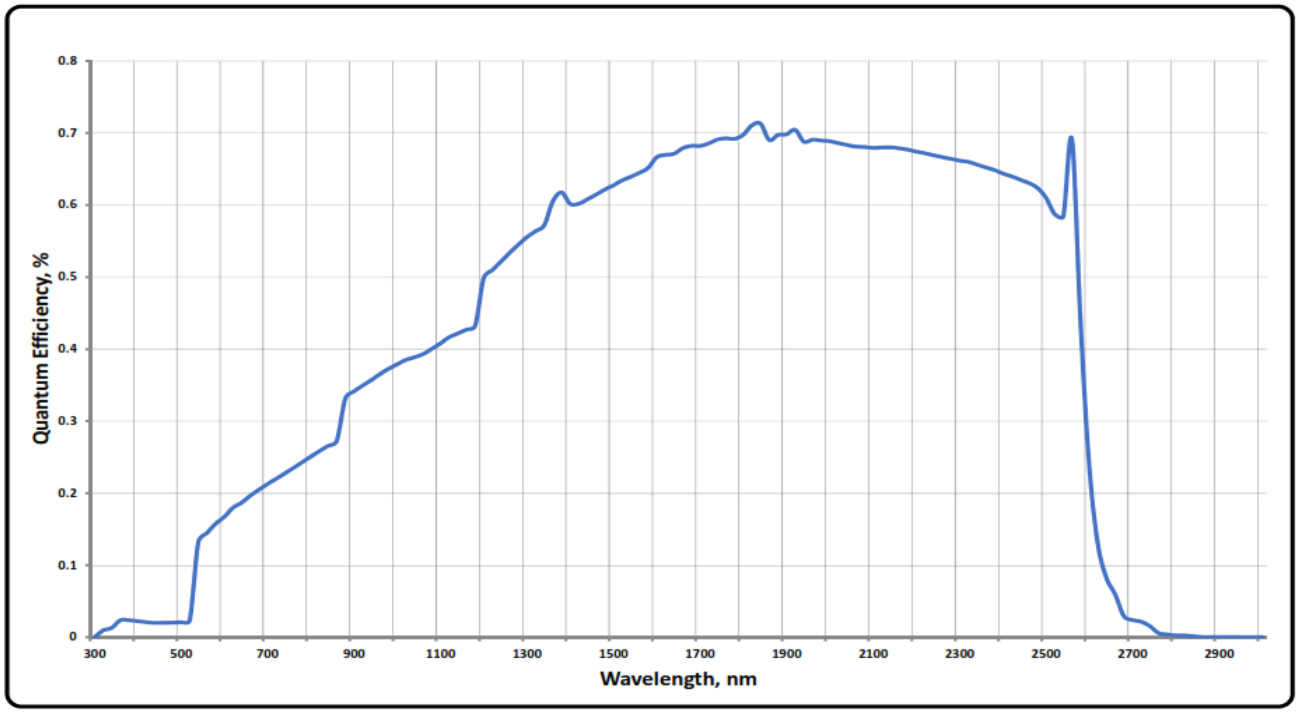
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Spectral Responsivity

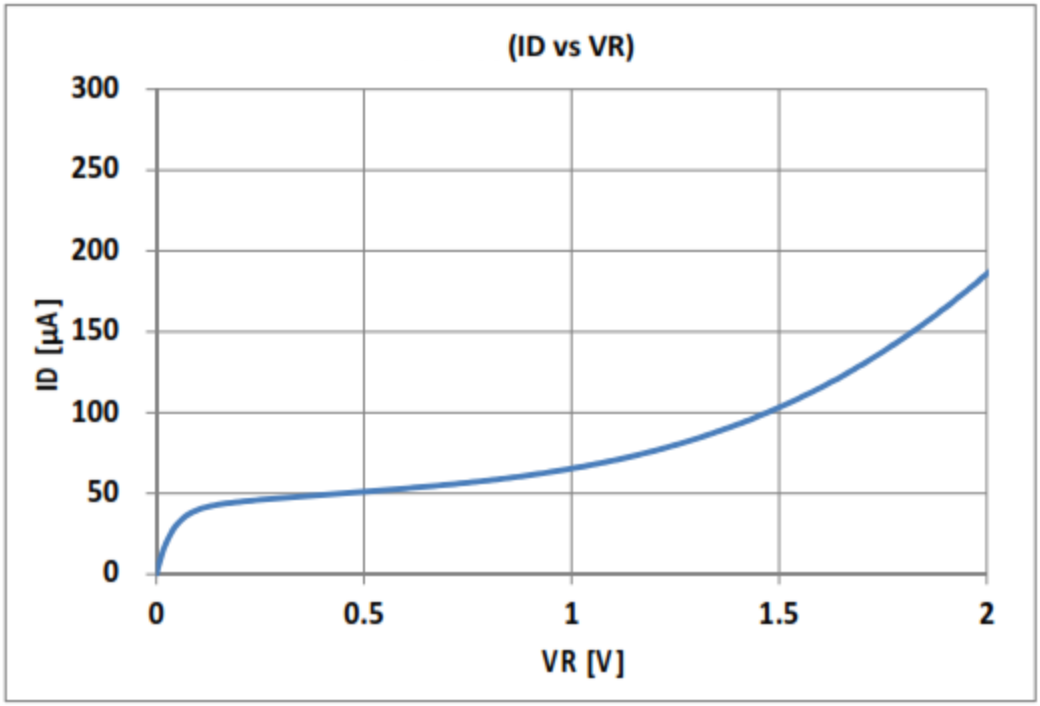


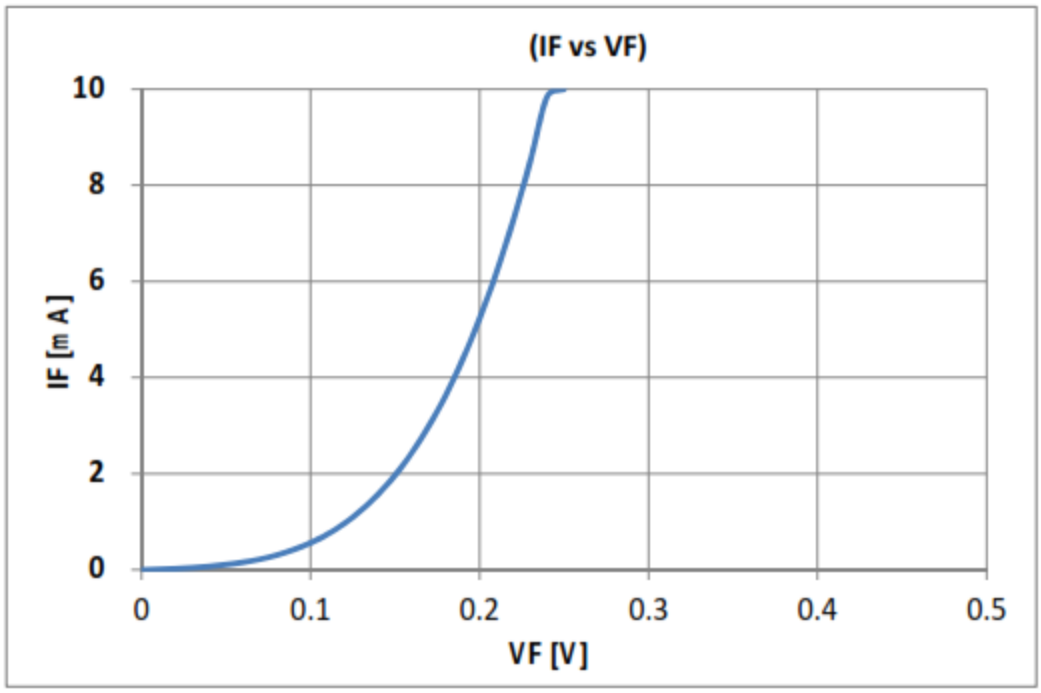
Quantum Efficiency



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Unikeyic Electronics

Global Electronic Components Distributor

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

Marktech Optoelectronics:

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