

Product No: MTPD2601T-100

Sensitivity Wavelength Range: 600nm~2600nm

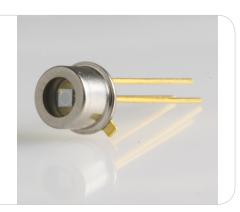
The MTPD2601T-100 from Marktech, a high sensitivity and high reliability product series, is ideally suited for Optical Communication devices. Custom packaging options for this die is also available.

FEATURES

- > High Speed Response
- > TO-18 Metal Can Package
- > Active Area of 1.0mm Φ / High Sensitivity
- > Spectral Range 600nm 2600nm

APPLICATIONS

- > High Speed Optical Communications
- > Industrial Controls
- > Security
- > LIDAR
- > Medical



Absolute Maximum	Ph				
ITEMS	SYMBOL	RATINGS	UNIT	lead-free RoHS	
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	600		2600	nm			
Dark Current	ID	VR=1V			300	uA			
Capacitance	С	VR=0V		1000		pF			
Capacitance	C	VR=1V		85		pF			
Responsivity *1	R	λ=2400nm		1.24		A/W			
Shunt Resistance	RS	VR=10mV		3.5		kOhm			
Quantum Efficiency *1	QE	λ=1840nm		72		%			
Light Current @λ=1300nm	IL	If=10mA		30		μΑ			
Light Current @λ=1300nm	IL	If=20mA		65		μΑ			

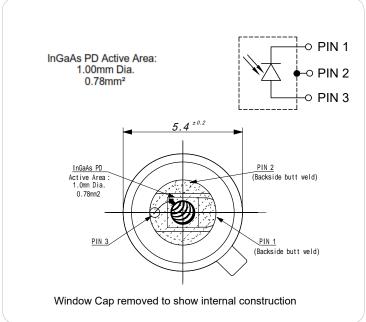
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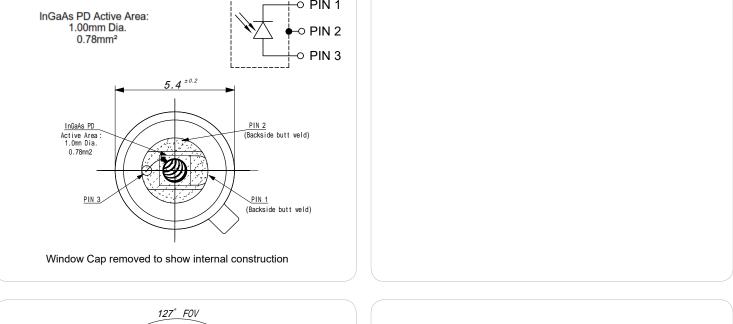
*1: As mounted on TO-46 header without resin coating or lens cap.

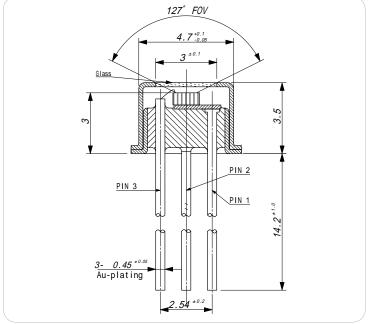


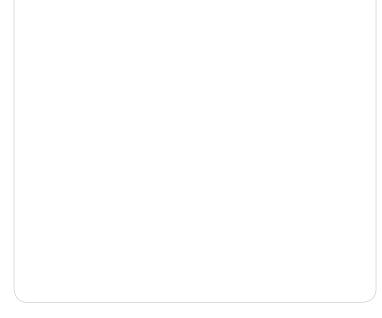
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Package Dimensions









Unit: mm, Tolerance: ±0.2

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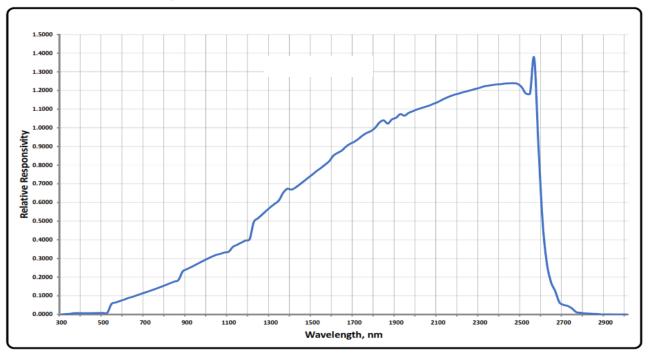
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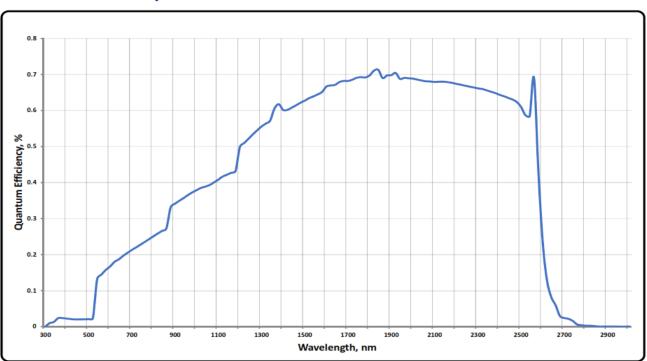
Optoelectronics

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Spectral Responsivity



Quantum Efficiency



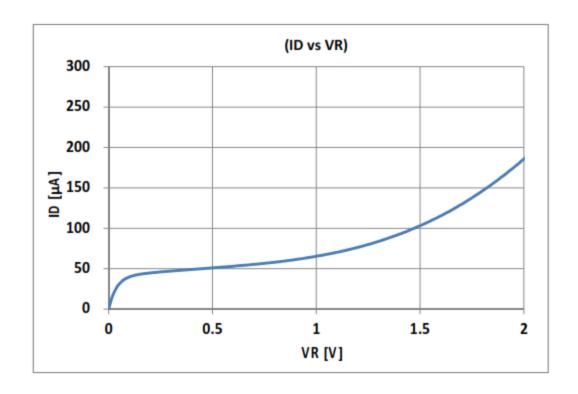
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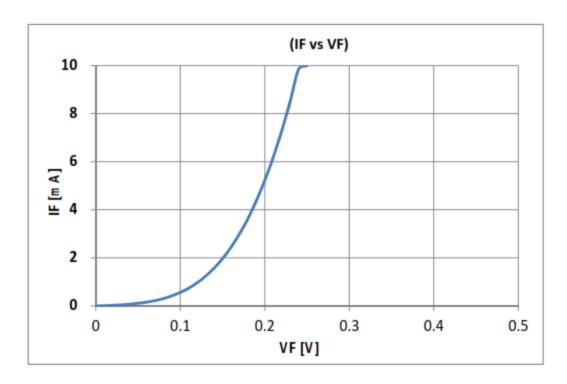
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