

# 2.6μm & 1.7μm InGaAs PIN Photodiode Detectors

Performance			High Integrity Optoelectronic Packaging Options										Marktech Part Number	Applications					
			ATLAS Seam Welded Hermetic Metal SMD				Transistor Outline (TO) Can Hermetic Metal Through-Hole								Plastic Through-Hole				
Cutoff Wavelength (Responsivity)	Active Area (mm <sup>2</sup> )	Speed & Gain	ATLAS 3mm x 3mm Flat	ATLAS 3mm x 3mm Dome	ATLAS 5mm x 5mm Flat	ATLAS 5mm x 5mm Dome	TO-46 Ball lens 3pin	TO-46 Flat Lens 3-Pin	TO-39 Flat Lens 2pin	TO-39 Dome Lens 2pin	TO-18 Flat Lens 2pin	TO-18 Dome Lens 2pin	Pig Tail Flat Lens 1 Pin	3mm Plastic Dome Lens 1	3mm Plastic Dome Lens 2				
1.7μm (400nm to 1750nm)	0.1	Highest Speed					•	•								MTPD1346D-010 MTPD1346SL-030 MTPD3001D1-030 MTPD3001D5-030 MTSM1346SMF1-030 MTSM1346SMR1-030 MTPD1346D-030 MTD6013D3-PD MTPD1346D-100 MTPD1346SL-100 MTSM1346SMF1-100 MTSM1346SMF2-100 MTSM1346SMR1-100 MTPD1346BD-100 MTPD1346D-150 MTSM1346SMF2-150 MTSM1346SMR1-150 MTPD1346D-200 MTPD1346D-300	Infrared Pyrometers Infrared Spectrometers 1540nm Eye Safe LiDAR Medical Diagnostic Devices Rangefinders / Distance Meters NIR / SWIR Laser Monitor NIR / SWIR LED Monitor Flame Sensors Optical Communications Detection Through Smoke / Fog at 1350 to 1400nm Plastic / Chemical Sorting Deeper Tissue Detection Depth Moisture Detection Deep Tissue Detection Depth Optical Coherence Tomography (OCT) Gas Sensing & Leak Detection		
	0.3	↑ SPEED ↓ GAIN	•	•										•	•				
	0.5		•				•												
	1		•		•			•											
	1.5			•					•		•								
	2					•					•								
3	Highest Gain								•	•									
2.6μm (600nm to 2600nm)	0.3	Highest Speed					•											MTPD2601FT-030 MTPD2601N-030 MTPD2601SL-030 MTPD2601T-030 MTSM2601SMF1-030 MTSM2601SMR1-030 MTPD2600-100 MTPD2600T-100 MTPD2601N-100 MTPD2601T-100 MTPD2601SL-100 MTSM2601SMF1-100 MTSM2601SMR1-100 MTPD2601K8-150 MTPD2601N-150 MTPD2601T-150 MTPD2601T8-150 MTSM2601SMF2-150 MTSM2601SMR1-150 MTPD2601K8-300 MTPD2601T8-300	Infrared Pyrometers Infrared Spectrometers Optical Glucose Monitors Medical Diagnostic Devices Moisture Meters SWIR / Extended SWIR Laser Monitor SWIR / Extended SWIR LED Monitor Detection Through Smoke / Fog at 1850 to 1900nm Plastic / Chemical Sorting 2050nm Eye Safe LiDAR Systems Moisture Detection Deeper Tissue Detection Depth Optical Coherence Tomography (OCT) Gas Sensing & Leak Detection
	1.0	↑ SPEED ↓ GAIN	•	•				•											
	1.5		•				•					•							
	3.0					•													
Hermetic Metal Packaging is ideal for higher temperature environments containing water vapor, oxygen, and other volatile chemicals, which can degrade chip performance.													Less Demanding, Single Use						
For High Volume Production with Surface Mount Device Assembly							For Low to Moderate Production Levels												

