



**Indium Gallium Arsenide - InGaAs Detectors**

Applications: Colorimeters, currency validation, industrial sensing (proximity, edge detection, light barriers, encoders), photometers, optical test equipment, smoke detectors, optical switches, fluorescence and NIR spectrometers

Part Number	Peak Wavelength	Spectral Range (nm)	Active Area (OD)	Dark Current	Switching Time	Responsivity @ λ	Optoelectronic Package & Lens Type	
<a href="#">MTD6013D3-PD</a>	1650	750-1750	0.5 mm	1μA	0.3ns	0.46A/W 1600nm	3mm Plastic Flat Lens (2 pin)	
<a href="#">MTSM1346SMF1-100</a>	1660	600-1750	1.0 mm	2μA	0.63ns	0.70A/W 1550nm	3.0x3.0 mm SMD Flat Lens	
<a href="#">MTSM1346SMF2-100</a>	1660	600-1750	1.0 mm	2μA	0.63ns	0.70A/W 1550nm	5.0x5.0 mm SMD Flat Lens	
<a href="#">MTPD1346D-200</a>	1660	600-1750	2.0 mm	160μA	-	0.57A/W 1600nm	TO-39 Metal Can Flat Lens (3 pin)	
<a href="#">MTPD1346D-300</a>	1660	600-1750	3.0 mm	265μA	-	0.50A/W 1600nm	TO-39 Metal Can Flat Lens (3 pin)	
<a href="#">MTPD1346D-010</a>	1660	600-1750	0.1 mm	1μA	-	0.75A/W 1660nm	TO-46 Metal Can Flat Lens (3 pin)	
<a href="#">MTPD1346D-030</a>	1660	600-1750	0.3 mm	1μA	0.3ns	0.75A/W 1660nm	TO-46 Metal Can Flat Lens (3 pin)	
<a href="#">MTPD1346D-100</a>	1660	600-1750	1.0 mm	2μA	0.63ns	0.75A/W 1660nm	TO-46 Metal Can Flat Lens (3 pin)	
<a href="#">MTPD1346D-150</a>	1660	600-1750	1.5 mm	2μA	1ns	0.75A/W 1660nm	TO-46 Metal Can Flat Lens (3 pin)	
<a href="#">MTPD2600-100</a>	1850	880-2600	1.0mm	200μA	-	1.07A/W 1860nm	TO-46 Metal Can Flat Lens (3 pin)	
<a href="#">MTPD1346SL-030</a>	1660	600-1750	0.3mm	9.3nA	0.3ns	0.74A/W 1650nm	TO-46 Metal Can Ball Lens (3 pin)	
<a href="#">MTPD1346SL-100</a>	1660	600-1750	1.0mm	75nA	0.63ns	0.74A/W 1650nm	TO-46 Metal Can Ball Lens (3 pin)	
<a href="#">MTPD2601FT-030</a>	2480	800-2600	0.3mm	86μA	-	1.24A/W 2400nm	Pigtail Metal Can Domed Lens (1 pin)	N
<a href="#">MTPD2601K8-150</a>	2480	800-2600	1.5mm	350μA	-	1.24A/W 2400nm	TO-39 Metal Can Domed Lens (2 pin)	E
<a href="#">MTPD2601K8-300</a>	2480	800-2600	3.0mm	830μA	-	1.24A/W 2400nm	TO-39 Metal Can Domed Lens (2 pin)	W
<a href="#">MTPD2601N-030</a>	2350	800-2600	0.3mm	105μA	-	1.24A/W 2400nm	TO-46 Metal Can Domed Lens (3 pin)	
<a href="#">MTPD2601N-100</a>	2350	800-2600	1.0mm	120μA	-	1.24A/W 2400nm	TO-18 Metal Can Domed Lens (3 pin)	
<a href="#">MTPD2601SL-030</a>	2350	800-2600	0.3mm	40μA	-	1.24A/W 2400nm	TO-46 Metal Can Ball Lens (2 pin)	
<a href="#">MTPD2601SL-100</a>	2350	800-2600	1.0mm	140μA	-	1.24A/W 2400nm	TO-46 Metal Can Ball Lens (2 pin)	N
<a href="#">MTPD2601T8-150</a>	2350	800-2600	1.5mm	300μA	-	1.24A/W 2400nm	TO-39 Metal Can Flat Lens (2 pin)	E
<a href="#">MTPD2601T8-300</a>	2560	800-2600	3.0mm	770μA	-	1.24A/W 2400nm	TO-39 Metal Can Flat Lens (2 pin)	W
<a href="#">MTPD2601T-030</a>	2480	800-2600	0.3mm	100μA	-	1.24A/W 2400nm	TO-18 Metal Can Flat Lens (3 pin)	
<a href="#">MTPD2601T-100</a>	2480	800-2600	1.0mm	100μA	-	1.24A/W 2400nm	TO-18 Metal Can Flat Lens (3 pin)	
<a href="#">MTSM1346SMF1-030</a>	1660	600-1750	0.3mm	16nA	0.3ns	0.74A/W 1650nm	3.0x3.0 mm SMD Flat Lens	
<a href="#">MTSM1346SMF1-100</a>	1660	600-1750	1.0mm	57nA	0.63ns	0.74A/W 1650nm	3.0x3.0 mm SMD Flat Lens	N
<a href="#">MTSM1346SMF2-150</a>	1660	600-1750	1.5mm	26nA	1ns	0.74A/W 1650nm	5.0x5.0 mm SMD Flat Lens	E
<a href="#">MTSM2601SMF1-030</a>	2480	800-2600	0.3mm	43μA	-	1.24A/W 2400nm	3.0x3.0 mm SMD Flat Lens	W
<a href="#">MTSM2601SMF1-100</a>	2480	800-2600	1.0mm	72μA	-	1.24A/W 2400nm	3.0x3.0 mm SMD Flat Lens	
<a href="#">MTSM2601SMF2-150</a>	2480	800-2600	1.5mm	26nA	-	1.24A/W 2400nm	5.0x5.0 mm SMD Flat Lens	
<a href="#">MTPD3001D1-030</a>	1565	750-1750	0.3 mm	0.1nA	0.3ns	0.37A/W 1560nm	3mm Plastic Domed Lens (2 pin)	
<a href="#">MTPD3001D5-030</a>	1300	750-1750	0.3 mm	0.1nA	0.3ns	0.37A/W 1560nm	3mm Plastic Domed Lens (2 pin)	N
<a href="#">MTPD3001D3-030</a>	1300	750-1750	0.3mm	0.1nA	0.3ns	0.37A/W 1560nm	3mm Plastic Domed Flat Lens (2 pin)	E
<a href="#">MTPD4346T38-300</a>	1640	600-1750	3.0mm	-	-	0.55A/W 1330nm	Quadrant inTO-5 Metal Can Flat Lens (8 pin)	W
<a href="#">MTPD2601SIW-100</a>	2480/950	250-2600	1.0 mm	80/10nA (Si)	0.3ns	Dual PDs InGaAs+Si	TO-39 Metal Can Flat Lens (3 pin)	
<a href="#">MTMD142345PDT38</a>	1675	600-1750	1.0mm	2μA	0.63ns	Detector+Emitters	TO-5 Metal Can Flat Lens (8 pin)	

**Silicon Detectors**

Applications: Colorimeters, currency validation, industrial sensing (proximity, edge detection, light barriers, encoders), photometers, optical test equipment, smoke detectors, optical switches, fluorescence and NIR spectrometers

Part Number	Peak Wavelength	Spectral Range	Active Area	Dark Current	Angular Response	Switching / Response Time	Optoelectronic Package & Lens Type	
<a href="#">MTD5052N</a>	525nm	410-580nm	0.57mm <sup>2</sup>	5pA@5V	±12°	1/60ns response	TO-18 Metal Can Domed Lens (2 pin)	
<a href="#">MTD5052W</a>	525nm	410-580nm	0.57mm <sup>2</sup>	5pA@5V	±55°	1/60ns response	TO-18 Metal Can Flat Lens (2 pin)	
<a href="#">MT03-029</a>	808nm	400-1100nm	3.6mm <sup>2</sup>	1nA@5V		50ns response	Ceramic SAW Package (8 pad)	
<a href="#">MTD6100PT</a>	808nm	400-1100nm	.19 mm <sup>2</sup>	10nA	±10°	6μs rise, 6μs fall	Pigtail Metal Can Domed Lens (1 pin)	
<a href="#">MTD3910PM</a>	900nm	400-1100nm	0.121mm <sup>2</sup>	10nA@10V	±60°	1/60ns response	TO-18 Low Profile Domed Lens (2 pin)	
<a href="#">MTD3910N</a>	900nm	400-1100nm	0.121mm <sup>2</sup>	10nA@10V	Narrow		TO-18 Metal Can Domed Lens (2 pin)	
<a href="#">MTD1114M3B</a>	925nm	400-1100nm	1.44mm <sup>2</sup>	0.5nA @ 10V	±65°	2μs rise, 2μs fall	3mm Ceramic Domed Lens (2 pin)	
<a href="#">MTD1200M3B</a>	925nm	400-1100nm	.88mm <sup>2</sup>	0.5nA@10V	±65°	2μs rise, 2μs fall	3mm Ceramic Domed Lens (2 pin)	
<a href="#">MTD3910D3</a>	940nm	400-1060nm	0.121mm <sup>2</sup>	10nA@10V	Wide		3mm Plastic Flat Lens (2 pin)	
<a href="#">MTD3910W</a>	940nm	400-1060nm	0.121mm <sup>2</sup>	10nA@10V	Wide		TO-18 Metal Can Flat Lens (2 pin)	
<a href="#">MT03-001</a>	940nm	350-1100nm	5.0mm <sup>2</sup>	1nA@10V	Wide	30ns response	TO-5 Metal Can Flat Lens (2 pin)	
<a href="#">MT03-002</a>	940nm	350-1100nm	10.0mm <sup>2</sup>	1nA@10V		80ns response	TO-5 Metal Can Flat Lens (2 pin)	
<a href="#">MT03-003</a>	940nm	350-1100nm	15.0mm <sup>2</sup>	1nA@10V		70ns response	TO-5 Metal Can Flat Lens (2 pin)	
<a href="#">MT03-004</a>	940nm	400-1100nm	4.0 x 1.44mm <sup>2</sup>	0.5nA @ 10V		22ns response	TO-5 Metal Can Flat Lens (4 pin)	
<a href="#">MT03-028</a>	940nm	410-580nm	15.0mm <sup>2</sup>	1nA@5V		80ns response	TO-5 Metal Can Flat Lens (3 pin)	
<a href="#">MT03-018</a>	940nm	250-1100nm	7.5mm <sup>2</sup>	10nA@5V		100ns response	TO-5 Metal Can Flat Lens (2 pin)	
<a href="#">MT03-022</a>	950nm	250-1100nm	7.5mm <sup>2</sup>	10nA@5V		100ns response	TO-5 Metal Can Flat Lens (3 pin ISO)	
<a href="#">MTD5032M8</a>	950nm	400-1100nm	17.7mm <sup>2</sup>	10nA@10V		100ns fall & rise	Low Profile Metal Can Domed Lens (2 pin)	
<a href="#">MT03-023</a>	950nm	250-1100nm	1.2mm <sup>2</sup>	10nA@5V		100ns response	TO-46 Metal Can Flat Lens (3 pin ISO)	
<a href="#">MT03-036</a>	950nm	250-1100nm	7.5mm <sup>2</sup>	10nA@5V		30ns response	TO-5 Metal Can Flat Lens (2 pin)	
<a href="#">MT03-021</a>	950nm	250-1100nm	1.2mm <sup>2</sup>	1nA@5V		20ns response	Ceramic SAW Package (6 pad)	
<a href="#">MT03-026</a>	950nm	250-1100nm	5.0mm <sup>2</sup>	0.5nA@5V		20ns response	TO-5 Metal Can Flat Lens (3 pin)	
<a href="#">MT03-027</a>	950nm	350-1100nm	10.0mm <sup>2</sup>	2.0nA@5V		80ns response	TO-5 Metal Can Flat Lens (3 pin)	
<a href="#">MT03-003-2</a>	940nm	250-1100nm	15.0mm <sup>2</sup>	1nA@5V		80ns response	TO-5 Metal Can Flat Lens (2 pin)	N
<a href="#">MT03-071</a>	950nm	350-1100nm	0.12mm <sup>2</sup>	1.0nA@5V		20ns response	2.1mm X 2.1mm SMD Flat Lens (2 pin)	E
<a href="#">MTPD2601SIW-100</a>	950/2560	250-2600nm	1.0 mm <sup>2</sup>	10nA@5V		Dual PDs Si+InGaAs	TO-39 Metal Can Flat Lens (3 pin)	W
<a href="#">MT03-004</a>	940nm	400-1100nm	5.8mm OD	0.5nA@10V		20ns response	Quadrant in TO-5 Metal Can Flat Lens (4 pin)	



### Avalanche Photodiodes (APDs)

Applications: Advanced driver assist (ADAS) systems, astronomical instruments, confocal microscopes, barcode readers, optical communications, light detection & ranging (LIDAR), medical devices, particle analyzers, rangefinders, and spectrometers.

Product	VBR	Peak Wavelength	Spectral Range	Active (Diameter) Area	Dark Current	Rise Time	Optoelectronic Package, Lens Type & Features
<a href="#">MTAPD-06-001</a>	120V - 160V	800	400-1100	(230µm) .04 mm2	0.4nA	.3ns	TO-46 Metal Can Flat Lens (2 pin or 3 pin)
<a href="#">MTAPD-06-002</a>	160V - 200V	800	400-1100	(230µm) .04 mm2	0.4nA	.3ns	TO-46 Metal Can Flat Lens (2 pin or 3 pin)
<a href="#">MTAPD-06-003</a>	120V - 160V	800	400-1100	(230µm) .04 mm2	0.4nA	.3ns	TO-46 Metal Can Flat Lens (2 pin or 3 pin)
<a href="#">MTAPD-06-004</a>	160V - 200V	800	400-1100	(230µm) .04 mm2	0.4nA	.3ns	TO-46 Metal Can Flat Lens (2 pin or 3 pin)
<a href="#">MTAPD-06-005</a>	120V - 160V	800	400-1100	(500µm) .2 mm2	0.5nA	.3ns	TO-46 Metal Can Flat Lens (2 pin or 3 pin)
<a href="#">MTAPD-06-006</a>	160V - 200V	800	400-1100	(500µm) .2 mm2	0.5nA	.3ns	TO-46 Metal Can Flat Lens (2 pin or 3 pin)
<a href="#">MTAPD-06-007</a>	120V - 160V	800	400-1100	(500µm) .2 mm2	0.5nA	.3ns	TO-46 Metal Can Flat Lens (2 pin or 3 pin)
<a href="#">MTAPD-06-008</a>	160V - 200V	800	400-1100	(500µm) .2 mm2	0.5nA	.3ns	TO-46 Metal Can Flat Lens (2 pin or 3 pin)
<a href="#">MTAPD-07-001</a>	120V - 160V	800	400-1100	(230µm) .04 mm2	50pA	.3ns	LCC3 SMD package (3 pad)
<a href="#">MTAPD-07-003</a>	120V - 160V	800	400-1100	(230µm) .04 mm2	0.4nA	.3ns	LCC6 SMD package (6 pad)
<a href="#">MTAPD-07-005</a>	120V - 160V	800	400-1100	(500µm) .2 mm2	0.5nA	.3ns	LCC3 SMD package (3 pad)
<a href="#">MTAPD-07-007</a>	120V - 160V	800	400-1100	(500µm) .2 mm2	100pA	.3ns	LCC6 SMD package (6 pad)
<a href="#">MTAPD-05-003</a>	160V - 200V	800	400-1100	(500µm) .2 mm2			APD with TIA in TO-5 Metal Can (4 pin)
<a href="#">MTAPD-06-009</a>	120V - 160V	905	400-1100	(230µm) .04 mm2	1.0nA	.6ns	TO-46 Metal Can Flat Lens (2 pin or 3 pin)
<a href="#">MTAPD-06-010</a>	160V - 200V	905	400-1100	(230µm) .04 mm2	1.0nA	.6ns	TO-46 Metal Can Flat Lens (2 pin or 3 pin)
<a href="#">MTAPD-06-011</a>	120V - 160V	905	400-1100	(230µm) .04 mm2	1.0nA	.6ns	TO-46 Metal Can Flat Lens (2 pin or 3 pin)
<a href="#">MTAPD-06-012</a>	160V - 200V	905	400-1100	(230µm) .04 mm2	1.0nA	.6ns	TO-46 Metal Can Flat Lens (2 pin or 3 pin)
<a href="#">MTAPD-06-013</a>	120V - 160V	905	400-1100	(500µm) .2 mm2	1.0nA	.6ns	TO-46 Metal Can Flat Lens (2 pin or 3 pin)
<a href="#">MTAPD-06-014</a>	160V - 200V	905	400-1100	(500µm) .2 mm2	1.0nA	.6ns	TO-46 Metal Can Flat Lens (2 pin or 3 pin)
<a href="#">MTAPD-06-015</a>	120V - 160V	905	400-1100	(500µm) .2 mm2	1.0nA	.6ns	TO-46 Metal Can Flat Lens (2 pin or 3 pin)
<a href="#">MTAPD-06-016</a>	160V - 200V	905	400-1100	(500µm) .2 mm2	1.0nA	.6ns	TO-46 Metal Can Flat Lens (2 pin or 3 pin)
<a href="#">MTAPD-07-009</a>	120V - 160V	905	400-1100	(230µm) .04 mm2	200pA	.6ns	LCC3 SMD package (3 pad)
<a href="#">MTAPD-07-010</a>	160V - 200V	905	400-1100	(230µm) .04 mm2	200pA	.6ns	LCC3 SMD package (3 pad)
<a href="#">MTAPD-07-011</a>	120V - 160V	905	400-1100	(230µm) .04 mm2	1.0nA	.6ns	LCC6 SMD package (6 pad)
<a href="#">MTAPD-07-012</a>	160V - 200V	905	400-1100	(230µm) .04 mm2	1.0nA	.6ns	LCC6 SMD package (6 pad)
<a href="#">MTAPD-07-013</a>	120V - 160V	905	400-1100	(500µm) .2 mm2	1.0nA	.6ns	LCC3 SMD package (3 pad)
<a href="#">MTAPD-07-014</a>	160V - 200V	905	400-1100	(500µm) .2 mm2	1.0nA	.6ns	LCC3 SMD package (3 pad)
<a href="#">MTAPD-07-015</a>	120V - 160V	905	400-1100	(500µm) .2 mm2	400pA	.6ns	LCC6 SMD package (6 pad)
<a href="#">MTAPD-07-016</a>	160V - 200V	905	400-1100	(500µm) .2 mm2	400pA	.6ns	LCC6 SMD package (6 pad)
<a href="#">MTAPD-07-012-905F</a>	160V - 200V	905	800-1000	(500µm) .2 mm2	1.0nA	0.6ns	LCC6 SMD package (6 pad) - Filtered
<a href="#">MTAPD-07-014-905F</a>	160V - 200V	905	800-1000	(500µm) .2 mm2	1.0nA	0.6ns	LCC6 SMD package (6 pad) - Filtered
<a href="#">MTAPD-07-015-905F</a>	120V - 160V	905	800-1000	(500µm) .2 mm2	1.0nA	0.6ns	LCC6 SMD package (6 pad) - Filtered
<a href="#">MTAPD-07-016-905F</a>	160V - 200V	905	800-1000	(500µm) .2 mm2	1.0nA	0.6ns	LCC6 SMD package (6 pad) - Filtered
<a href="#">MTAPD-06-016-905F</a>	160V - 200V	905	800-1000	(500µm) .2 mm2	1.0nA	0.6ns	LCC6 SMD package (6 pad) - Filtered

### Silicon Phototransistors

Applications: Optoisolators, industrial sensing (proximity, edge detection, light barriers, encoders), IR receivers, smoke detectors, optical switches, occupancy sensors, fiber optical communications

Part Number	Peak Sensitivity Wavelength	Spectral Range	Angular Response	Collector Current	Switching Time	Optoelectronic Package & Lens Type
<a href="#">MTD8000M3B-T</a>	880nm	400-1100nm	160°	30mA	10µs fall & rise	3mm Ceramic Domed Lens (2 pin)
<a href="#">MTD8600N4-T</a>	880nm	400-1100nm	24°	50mA	10µs fall & rise	TO-18 Metal Can Domed
<a href="#">MTD6000PP</a>	880nm	400-1100nm	22°	30mA	10µs fall & rise	1.55mm Metal Pill Domed Lens
<a href="#">MTD6000PT-T</a>	880nm	400-1100nm	20°	20mA	5µs fall, 7µs rise	Pigtail Metal Can Domed Lens (1 pin)
<a href="#">MTD6000CP-T</a>	880nm	400-1100nm	10°	20mA	5µs fall, 7µs rise	3.5x2.2 SMD Domed Lens (2 pad)
<a href="#">MTD6000MC-T</a>	880nm	400-1100nm	50°	20mA	5µs fall, 7µs rise	3.5x2.2 SMD Flat Lens (2 pad)
<a href="#">MTD8600M3B</a>	880nm	400-1100nm	80°	30mA	10µs fall & rise	3mm Ceramic Domed Lens (2 pin)
<a href="#">MTD8600N-T</a>	880nm	400-1100nm	24°	50mA	10µs fall & rise	TO-18 Metal Can Domed Lens (2 pin)
<a href="#">MTD8000N4-T</a>	880nm	400-1100nm	24°	50mA	10µs fall & rise	TO-18 Metal Can Domed Lens (3 pin)
<a href="#">MTD8600T-T</a>	880nm	400-1100nm	110°	50mA	10µs fall & rise	TO-18 Metal Can Flat Lens (2 pin)
<a href="#">MTD8600T4-T</a>	880nm	400-1100nm	110°	30mA	10µs fall & rise	TO-18 Metal Can Flat Lens (3 pin)
<a href="#">MTD8000D1</a>	880nm	400-1100nm	30°	30mA	10µs fall & rise	3mm Plastic Round Lens
<a href="#">MTD8000D3</a>	880nm	400-1100nm	65°	30mA	10µs fall & rise	3mm Plastic Flat Lens

### UV Detectors Applications:

Biomedical and chemical analysis, UV emitter monitor, sunlight UV index sensors, flame detection, UV sanitizer output verification

Part Number	Peak Sensitivity Wavelength	Spectral Range	Active Area	Dark Current	Optoelectronic Package & Lens Type
<a href="#">MTD2800UV</a>	265nm	210 - 355nm	0.1mm2	10fA	TO-52 Metal Can Flat Lens (2 pin)

