# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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Product No: MTAPD-07-015/016

### Peak Sensitivity Wavelength: 905nm

The MTAPD-07-xxx is a circular (Φ500um) .2 mm<sup>2</sup> active area Avalanche Photodiode with optimized sensitivity at 905nm & housed in a LCC6 SMD package. It is well suited for applications requiring High Speed & Low Noise in visible-near IR applications.

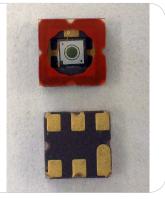
#### FEATURES

>Fast Rise Time
>Ultra Low Noise
>Low Capacitance
>High Gain
>Optimum Gain M100

> Operating Voltages: 120v - 160v 160v - 200v Other Voltages Available

#### APPLICATIONS

- >Optical rangefinders
- >High speed optical communications
- >Medical Equipment
  - >Bar Code Readers



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## Absolute Maximum Ratings

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ITEMS	SYMBOL	RATINGS	UNIT	lead	eé
Storage Temperature	Tstg	-55 ~ +125	°C		
Operating Temperature	Topr	-20 ~ +85	°C		
Power Dissipation	Pd	1	mw		
Forward Current	If	1	mA		
Operating Voltage	Vop	0.95 x Vbr	V		
Solder Reflow Temperature *1	Stemp	260	°C		

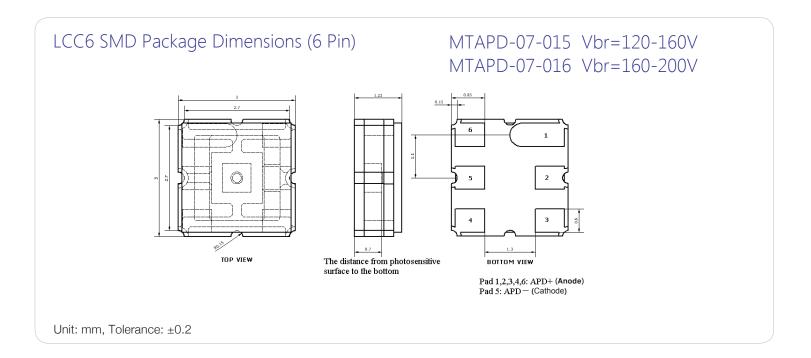
\*1: Time 5 Sec max

#### Electrical & Optical Characteristics (Ta=23°C) ITEMS SYMBOL CONDITIONS MIN. түр MAX. UNIT Spectral Response λ 400 - 1100 nm Active Area Diameter 500 um Responsivity Re λ=905nm, φe=1uW, M=100 50 55 A/W --Rise Time f=1MHz, RL=50 $\Omega$ , $\lambda$ =905nm 0.6 tR \_ \_ \_\_\_ ns Dark Current M=100 0.4 ID 0.1 1.0 nA M=100, f=1MHz 12 Capacitance Cj рF ---Optimal Gain М 100 Vbr ---200 V Breakdown Voltage IR=2uA 80 Tc=-40°C - 85°C Temperature Coefficient 0.9 V/°C

2015-10-29



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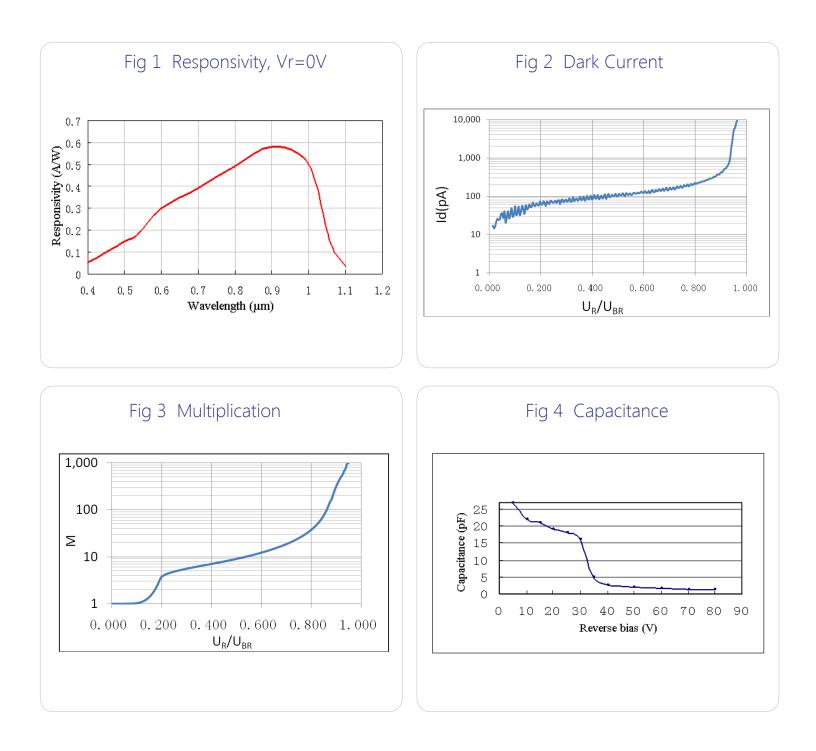


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Product No: MTAPD-07-015/016

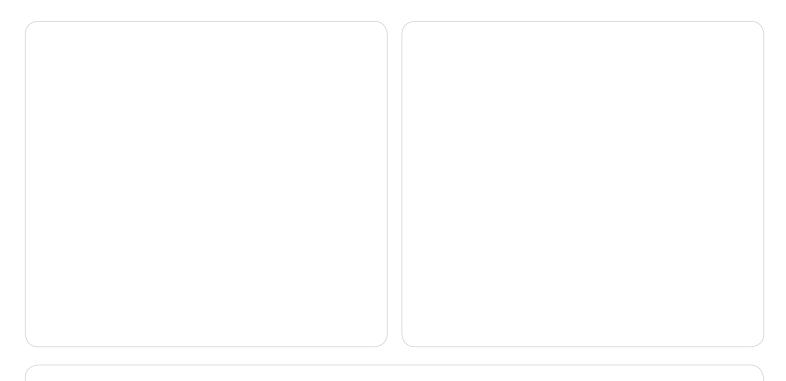


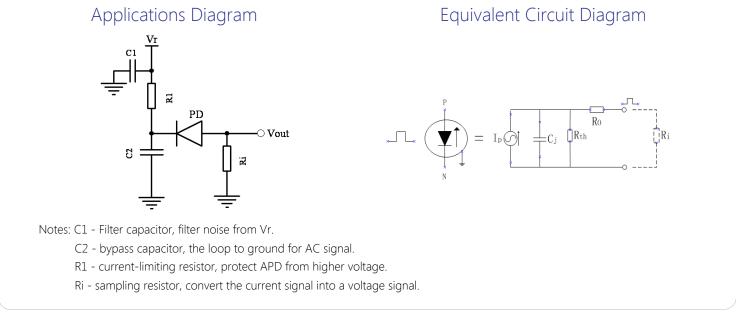
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Product No: MTAPD-07-015/016







The information contained herein is subject to change without notice.

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