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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Product No: MTAPD-07-001

Peak Sensitivity Wavelength: 800nm

The MTAPD-07-001 is a circular (Φ 230um) 0.04 mm² active area Avalanche Photodiode with optimized sensitivity at 800nm & housed in a LCC3 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

- Other Voltages Available

Absolute Maximum	Ratings			Pb
ITEMS	SYMBOL	RATINGS	UNIT	lead-freé
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	

APPLICATIONS

>Optical rangefinders

>Medical Equipment

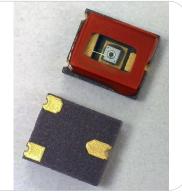
>Bar Code Readers

>High speed optical communications

*1: Time 5 Sec max

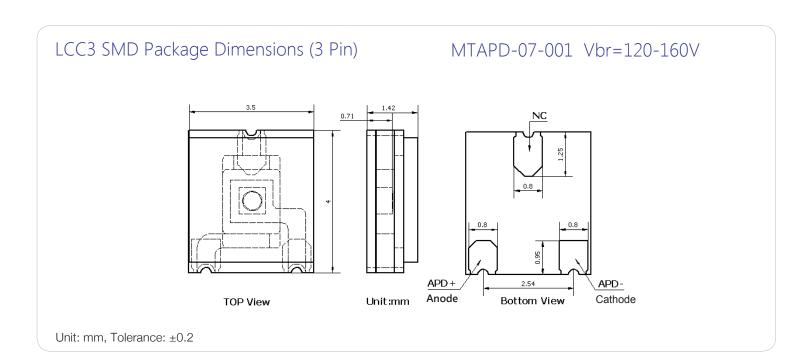
ITEMS	SYMBOL	CONDITIONS	MIN.	ТҮР	MAX.	UNIT
Spectral Response	λ			400 - 1100		nm
Active Area				Diameter 230		um
Responsivity	Re	λ=800nm, φe=1uW, M=100	35	50		A/W
Rise Time	t _R	f=1MHz, RL=50Ω, λ=800nm		0.3		ns
Dark Current	ID	M=100	0.02	0.05	0.4	nA
Capacitance	Cj	M=100, f=1MHz		1.5		pF
Optimal Gain	М			100		
Breakdown Voltage	Vbr	IR=2uA	80		200	V
Temperature Coefficient		Tc=-40°C - 85°C		0.6		V/°C

2015-10-30





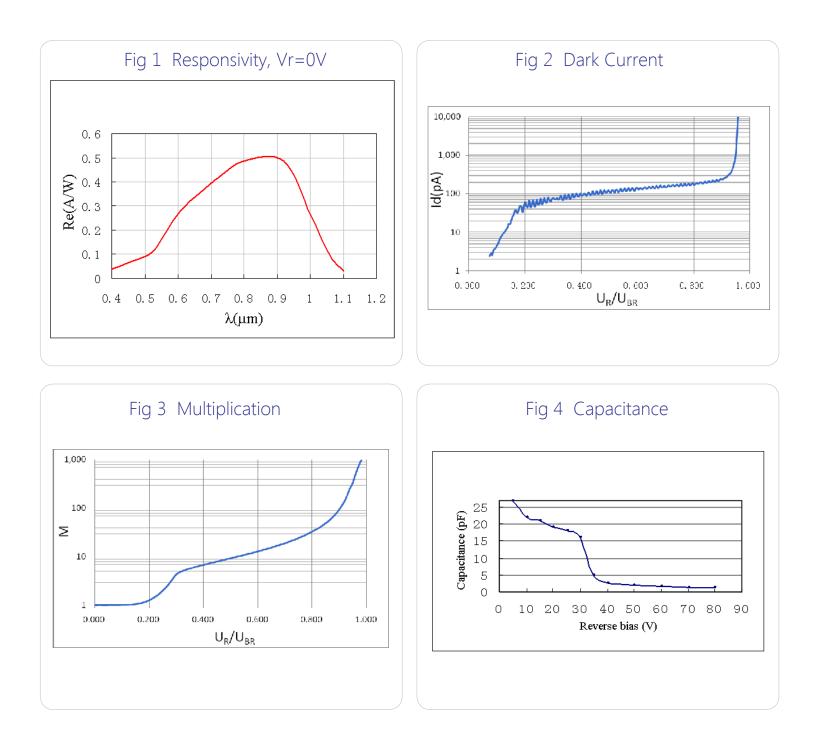
Product No: MTAPD-07-001



2



Product No: MTAPD-07-001

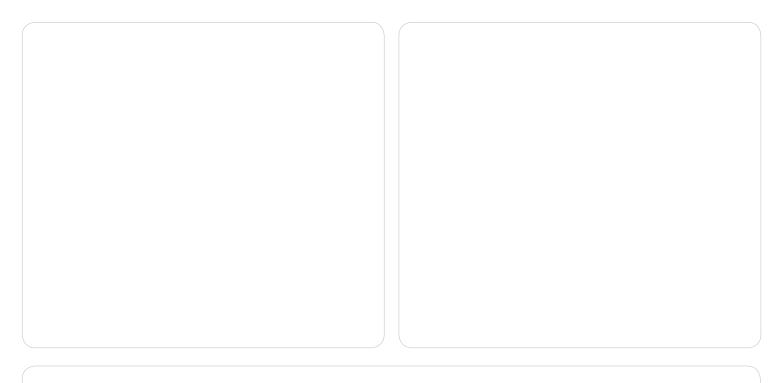


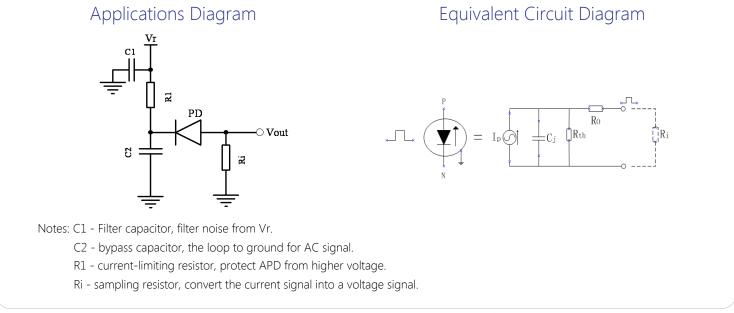
2015-10-30

Global Headquarters, 3 Northway Lane North, Latham, NY 12110, USA **www.marktechopto.com TOLL FREE:** 1-800-984-5337 • **PHONE:** 518-956-2980 • **FAX:** 518-785-4725 • **EMAIL:** info@marktechopto.com



Product No: MTAPD-07-001







2015-10-30

The information contained herein is subject to change without notice.

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