



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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## Peak Sensitivity Wavelength: 940nm

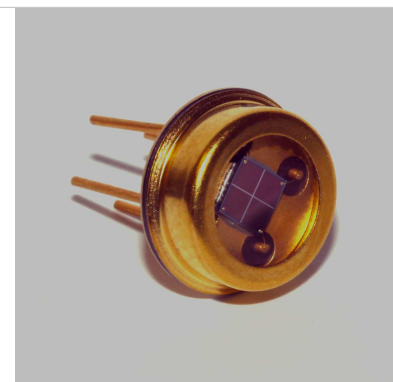
The MT03-004 is a square quadrant with a total active area of 5.8mm<sup>2</sup> (4 x 1.44mm<sup>2</sup>) with a 50um gap in a hermetic TO-5 metal can package. It is well suited for applications requiring high sensitivity (Green/Blue) as well as visible-near IR applications.

### FEATURES

- > Ultra Low Noise
- > High Shunt Resistance
- > Wide Dynamic Range
- > Blue Enhanced

### APPLICATIONS

- > Colorimeters
- > Beam centering
- > Optical Encoders
- > Fluorescence



## Absolute Maximum Ratings



ITEMS	SYMBOL	RATINGS	UNIT
Reverse Voltage	VR	50	V
Operating Temperature Range	Topr	-400 ~ +100	°C
Storage Temperature Range	Tstg	-55 ~ +125	°C
Lead Soldering Temperature *1	Tls	260	°C

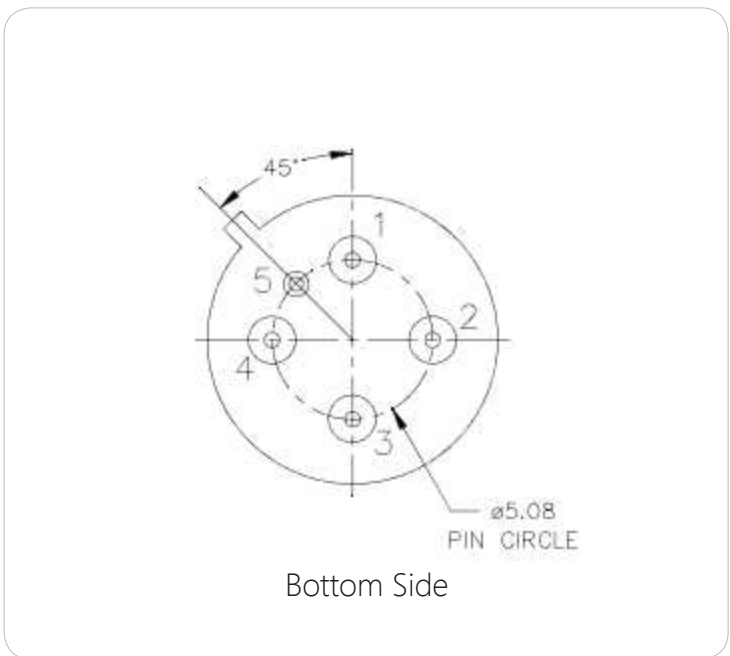
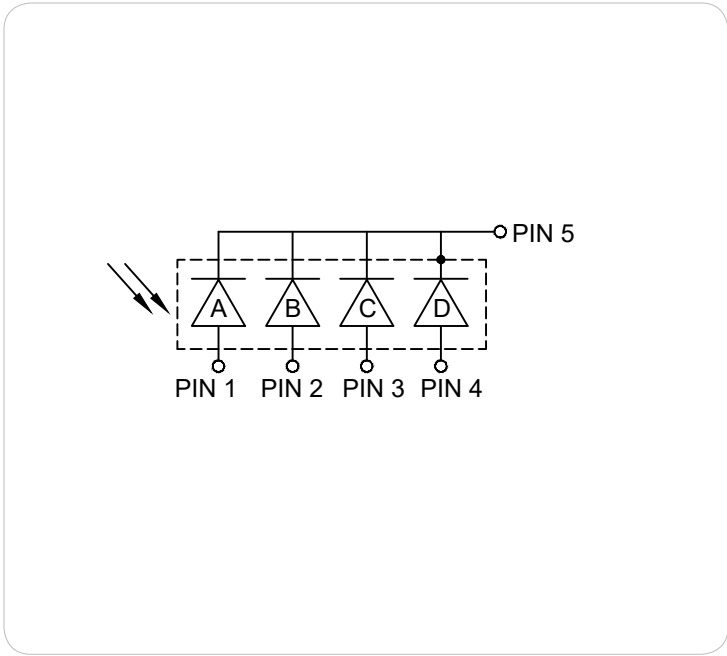
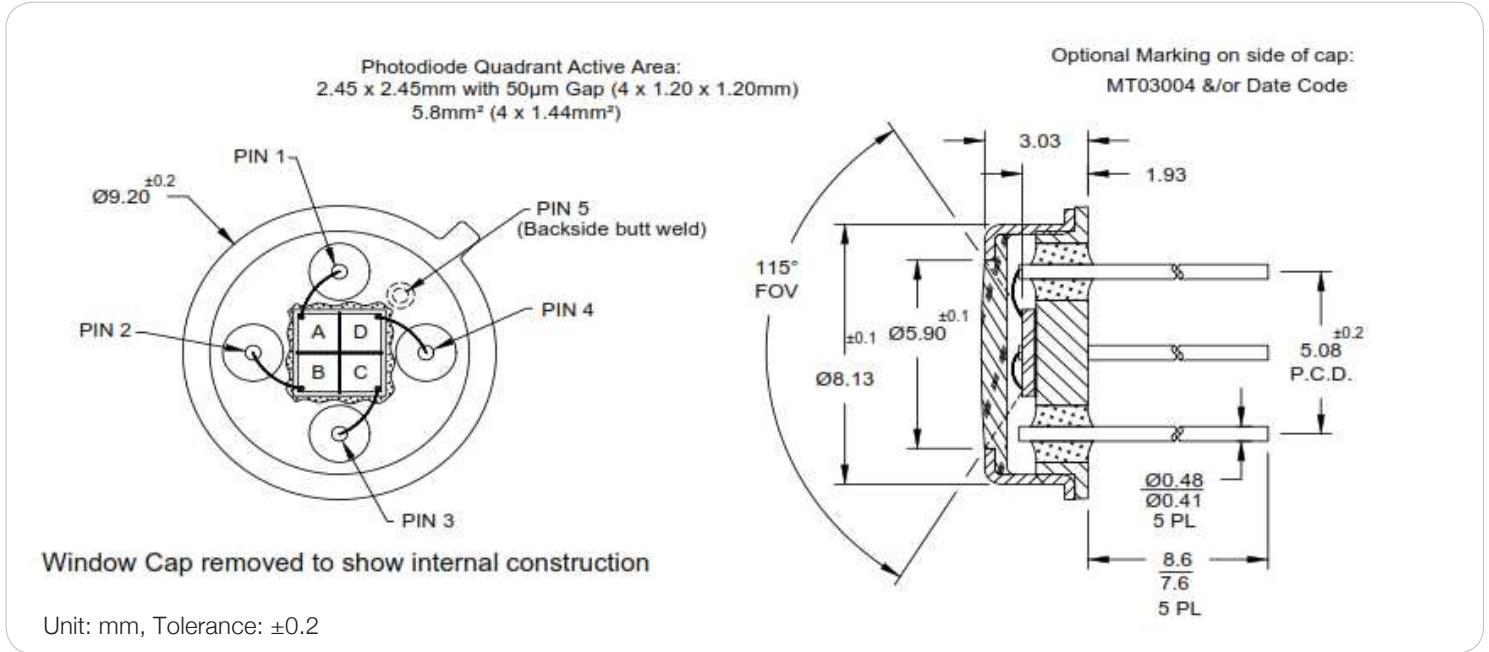
\*1: Time 5 Sec max, Position: Up to 3mm from the body.

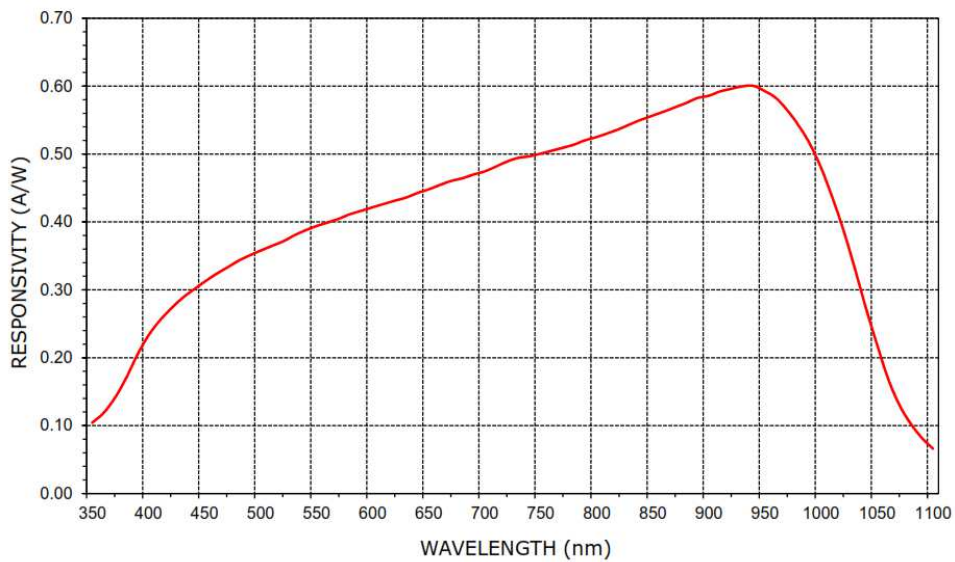
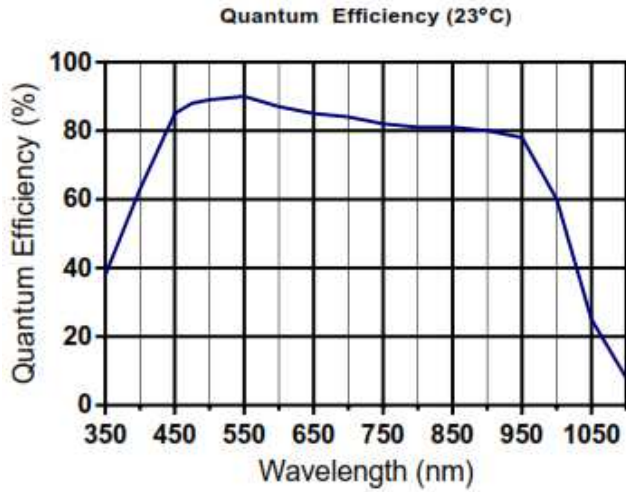
## Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Light Current	IL	*1, *2	--	--	10.0	mA
Dark Current	ID	VR=10V	--	0.5 per ele	1.0 per ele	nA
Spectral Sensitivity	λ	--	--	400~1100	--	nm
Peak Sensitivity Wavelength	λp	--	--	940	--	nm
Responsivity	Rt	VR=0V, λ=410nm	--	0.22	--	A/W
Responsivity	Rt	VR=0V, λ=940nm	--	0.60	--	A/W
Response Time @850nm	Tr	RL=50Ω, Vr=10V	--	20.0	22.0	nS
Junction Capacitance	Cj	at 1MHz, V=0V per ele	--	20	25	pF
Junction Capacitance	Cj	at 1MHz, V=10V per ele	--	3.5	6.0	pF
Shunt Resistance	Rs	Vr=10mV	200	250	--	mΩ

\*1: Color Temperature=2870°K Standard Tungsten Lamp, \*2: VR=10V, Ee=5mW/cm<sup>2</sup>.

TO-5 Package Dimensions (5 Pin)





The information contained herein is subject to change without notice.

2018-01-02