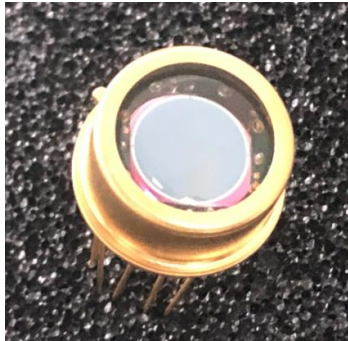


# Silicon Quadrant Photodiode With Integrated Amplifier



## Description

The MOQ50-IT is based on a 7.8mm diameter quadrant silicon PIN With four TIA input in a 12 lead TO-style package.

The output can be AC or DC coupled to load.

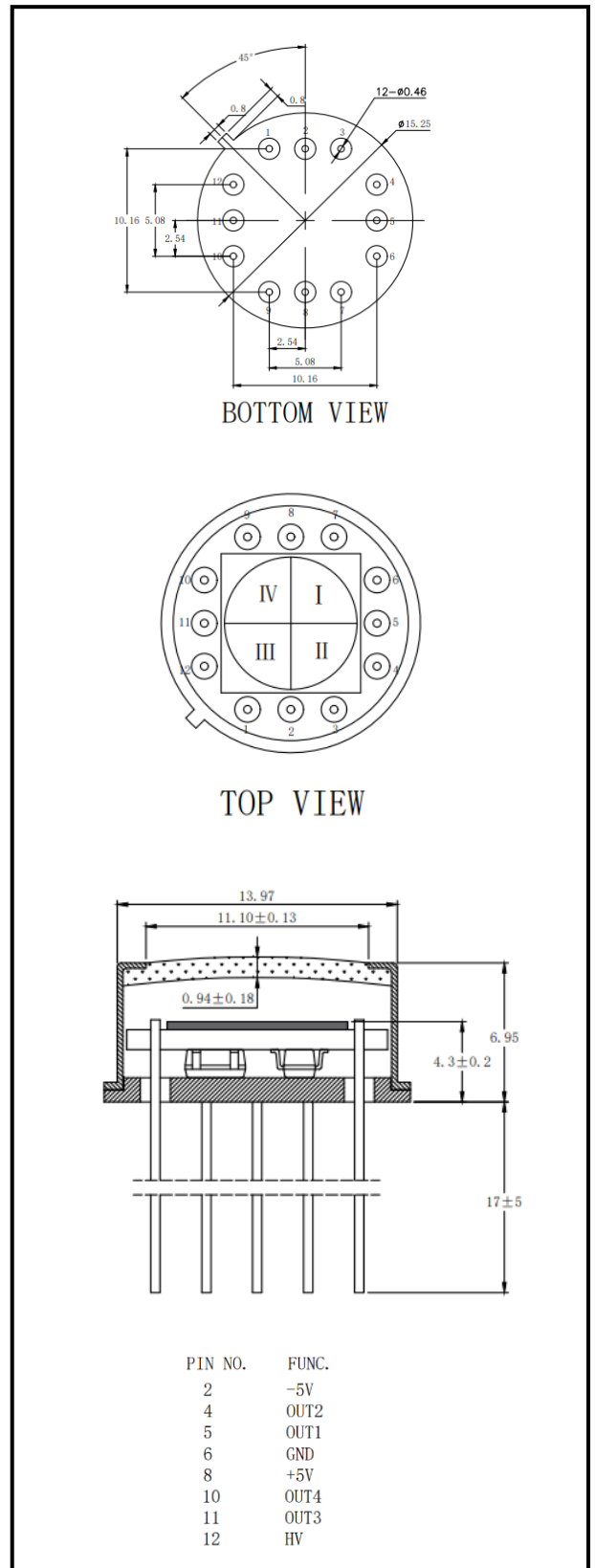
This product can be customized to meet the customer's parameter Or package requirements.

## Features

- \* Photodiode active size: 50mm<sup>2</sup>
- \* Spectral response: 400-1100nm
- \* 100kΩ feedback resistor
- \* Possible solution of position: 0.1μm

## Applications

- \* Spot tracking
- \* Star leading detector in astronomic equipment
- \* Guidance
- \* Position sensor
- \* Free space communication

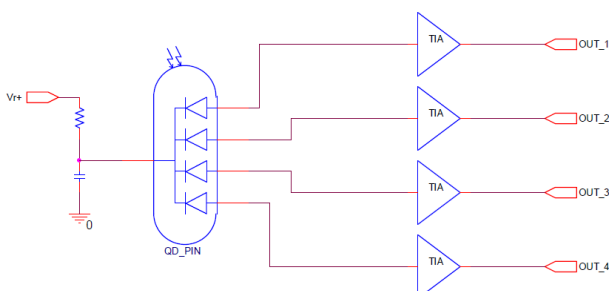


Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject change without notice

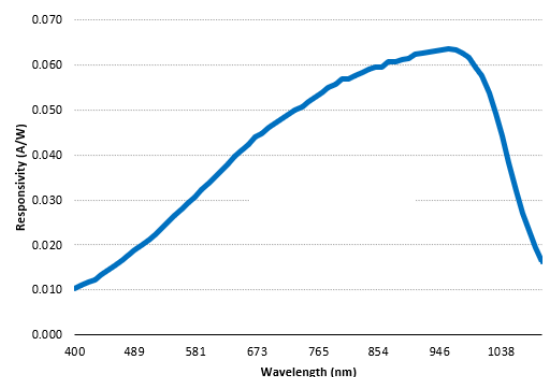
## Typical Characteristics ( measured at 25 °C ambient)

Parameter	Test condition	Typ.		
Active area		Φ7.98mm		
Gap	Between elements	42um		
Bias Voltage (HV)		0-30V		
DC supply voltage		±5V		
Operating Current		30mA		
Dark level noise (Vpp)	E=0Lx	50mV		
Output Offset		10mV		
Frequency response (-3dB)		10kHz		
Rise/Fall time	10-90%/90-10%	1uS/100uS		
Output loader RL		10Ω		
Transimpedance Gain		100KΩ		
Photodiode active area		4*12.5mm <sup>2</sup>		
Saturation Voltage		5V		
Absolute spectral responsivity	λ =850nm	55 mV/μW		
Input opening angle		±35°		
Operating Temperature		-40 °C	+25 °C	+80 °C
Storage temperature		-55 °C	+25 °C	+125 °C

### Internal Circuit Schematic



### SPECTRAL RESPONSIVITY



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