

Product No: MTSM2601SMR1-100

## Sensitivity Wavelength Range: 800nm~2600nm

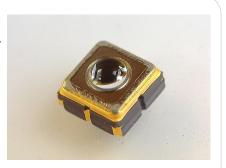
The MTSM2601SMR1-100 from Marktech, a high sensitivity and high reliability product series, is ideally suited for Optical Communication devices. Custom packaging options for this die is also available.

## **FEATURES**

- > High Speed Response
- > 3mm x 3mm Seam Welded Surface Mount Package
- > Active Area of 1.0mm Φ / High Sensitivity
- > Spectral Range 800nm 2600nm
- > Hermetically Sealed

### **APPLICATIONS**

- > High Speed Optical Communications
- > Industrial Controls
- > Gas/Water Analysis
- > LIDAR
- > Medical



Absolute Maximum	Ph			
ITEMS	SYMBOL	RATINGS	UNIT	lead-free RoHS
Active Area	Ф	1.0	mm	
Operating Temperature Range	Topr	-40 to +85	°C	
Storage Temperature Range	Tstg	-40 to +125	°C	

Electrical & Optical Characteristics (Ta = 25°C)									
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT			
Breakdown Voltage	VR	IR=100uA			1	V			
Sensitivity Range	λ	VR=0V	800		2600	nm			
Dark Current	ID	VR=0V		23		nA			
Dark Current	ID	VR=1V		72		uA			
Capacitance	С	VR=0V		750		рF			
Capacitance	C	VR=1V		60		pF			
Responsivity	R	λ=2400nm		1.24		A/W			
Shunt Resistance	RS	VR=10mV		6		kOhm			
Quantum Efficiency	QE	λ=1840nm		72		%			
Light Current @λ=1300nm	IL	If=10mA		65		μΑ			
Light Current @λ=1300nm	IL	If=20mA		150		μΑ			

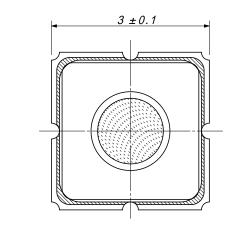
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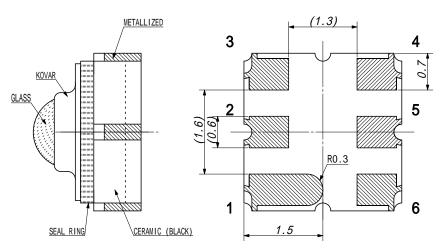


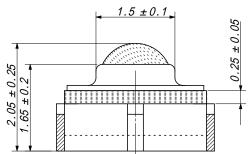


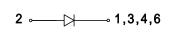
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# **Package Dimensions**





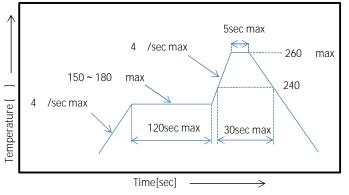


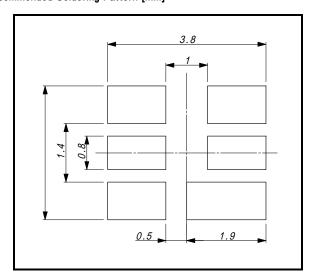


- 1- PD2601 Cathode
- 2- PD2601 Anode
- 3- PD2601 Cathode
- 4- PD2601 Cathode
- 5- NC
- 6- PD2601 Cathode

## Recommended Soldering Pattern [mm]







Unit: mm, Tolerance: ±0.2

The information contained herein is subject to change without notice.

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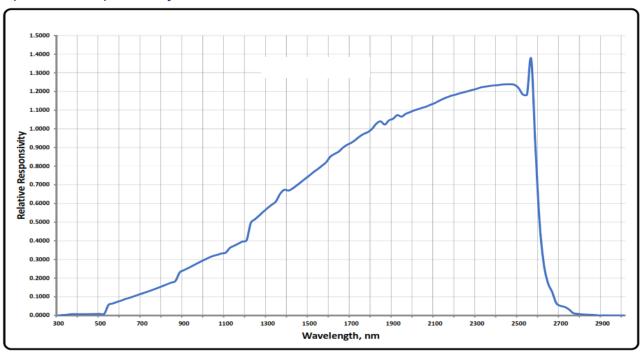


# Marktech High Speed InGaAs PIN Photodiode

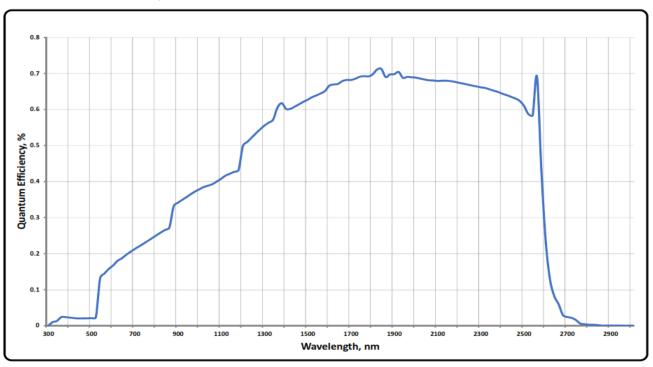
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# **Spectral Responsivity**



# **Quantum Efficiency**

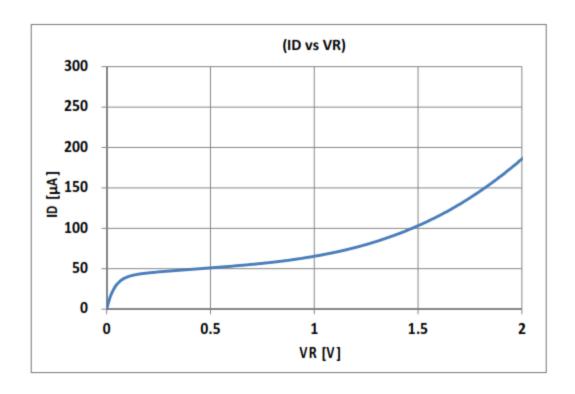


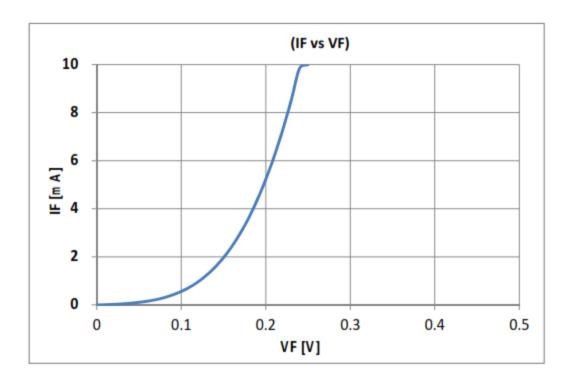
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