

Product No: MTSM2601SMR1-100

Sensitivity Wavelength Range: 800nm~2600nm

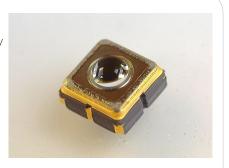
The MTSM2601SMR1-100 from Marktech, a high sensitivity and high reliability product series, is ideally suited for Optical Communication devices. Custom packaging options for this die is also available.

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	Pb			
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	

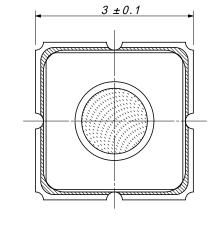
Note: Also available on PCB - Starboard MTSM2601SMR1-100S (See Page 3)

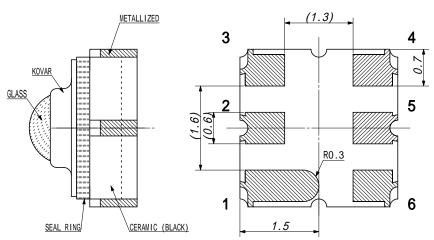
Electrical & Optical	al Characte	ristics (la = 2	25°C)			
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Breakdown Voltage	VR	IR=100uA			1	V
Sensitivity Range	λ	VR=0V	800		2600	nm
Dark Current	ID	VR=0V		23		nA
Dark Current	ID	VR=1V		72		uA
Capacitance	С	VR=0V		750		рF
Capacitance	C	VR=1V		60		pF
Responsivity	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

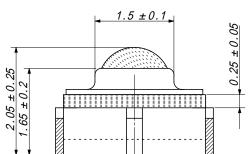


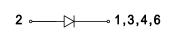
Product No: MTSM2601SMR1-100

Package Dimensions



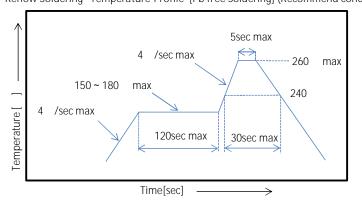




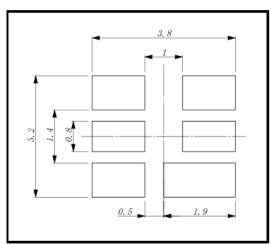


- 1- PD2601 Cathode
- 2- PD2601 Anode
- 3- PD2601 Cathode
- 4- PD2601 Cathode
- 5- NC
- 6- PD2601 Cathode

Reflow Soldering Temperature-Profile [Pb free Soldering] (Recommend condition)



Recommended Soldering Pattern [mm]



Unit: mm, Tolerance: ±0.2

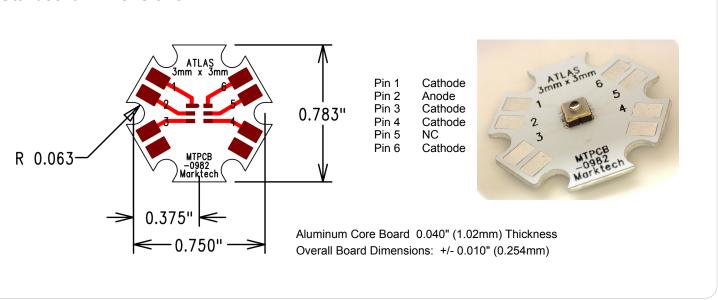
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Marktech High Speed InGaAs PIN Photodiode

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Starboard Dimensions





We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

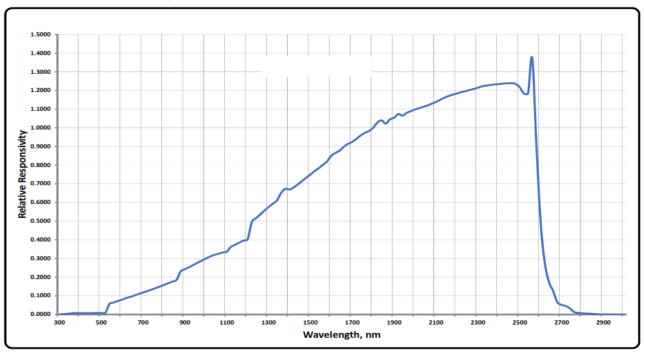
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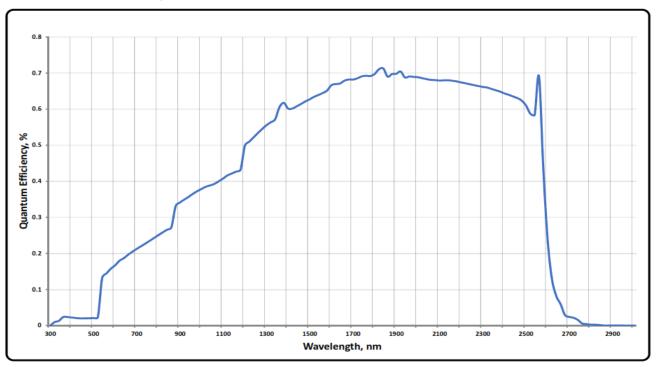
Optoelectronics

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Spectral Responsivity



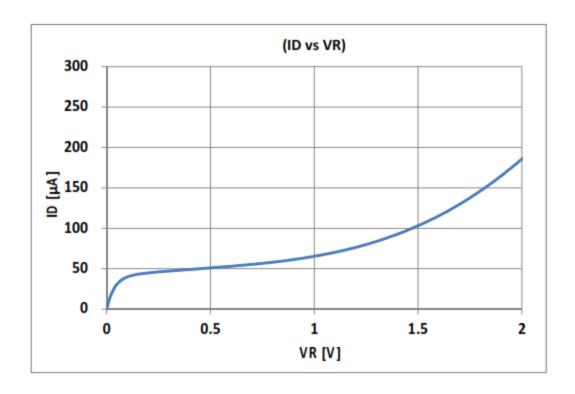
Quantum Efficiency

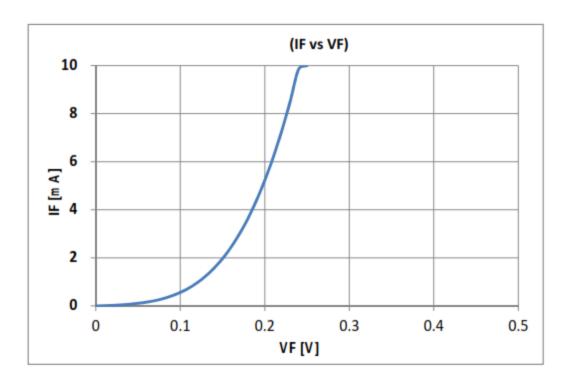


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