

Sensitivity Wavelength Range: 800nm~2600nm

The MTSM2601SMF1-030 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

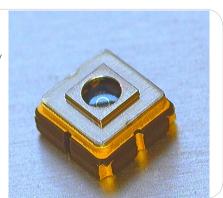
- > High Speed Response
- > 3mm x 3mm Seam Welded Surface Mount Package
- > Active Area of 0.3mm Φ / High Sensitivity
- > Spectral Range 800nm 2600nm
- > Hermetically Sealed

Storage Temperature Range

APPLICATIONS

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

-40 to +125



Absolute Maximum	Pb			
ITEMS	SYMBOL	RATINGS	UNIT	Pb lead-free RoHS
Active Area	Ф	0.3	mm	
Operating Temperature Range	Topr	-40 to +85	°C	

 $^{\circ}C$

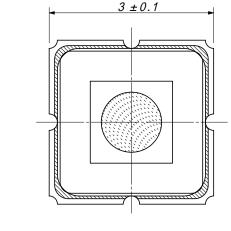
Note: Also available on PCB - Starboard MTSM2601SMF1-030S (See Page 3)

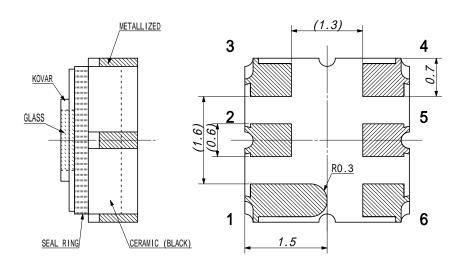
Tstg

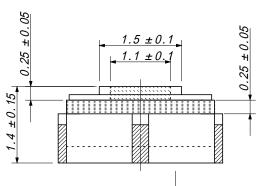
Electrical & Optical Characteristics (Ta = 25°C)								
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT		
Breakdown Voltage	VR	IR=100uA			1	V		
Sensitivity Range	λ	VR=0V	800		2600	nm		
Dark Current	ID	VR=0V		1		nA		
Dark Current	ID	VR=1V		43		uA		
Capacitance	С	VR=0V		150		pF		
Capacitance	С	VR=1V		20		pF		
Responsivity	R	λ=2400nm		1.24		A/W		
Shunt Resistance	RS	VR=10mV		9		kOhm		
Quantum Efficiency	QE	λ=1840nm		72		%		
Light Current @λ=1300nm	IL	If=10mA		25		μΑ		
Light Current @λ=1300nm	IL	If=20mA		50		μΑ		



Package Dimensions



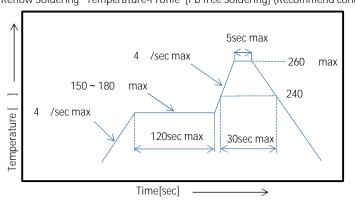




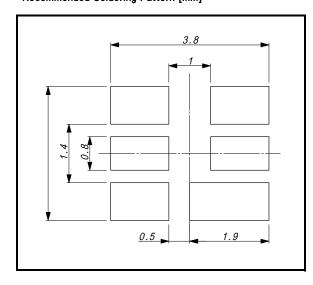


- 1- PD2601 Cathode
- 2- PD2601 Anode
- 3- PD2601 Cathode
- 4- PD2601 Cathode
- 5- NC
- 6- PD2601 Cathode

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

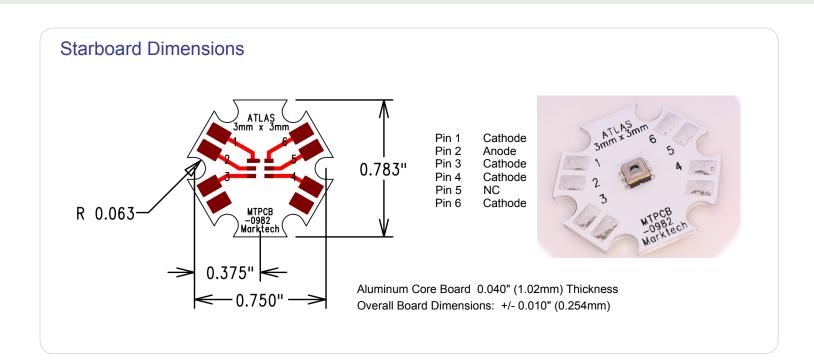


Recommended Soldering Pattern [mm]



The information contained herein is subject to change without notice.





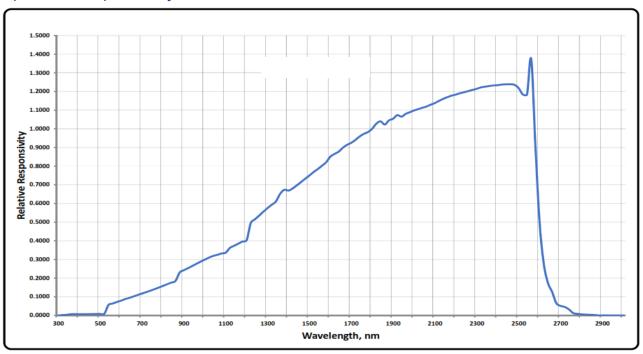


We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

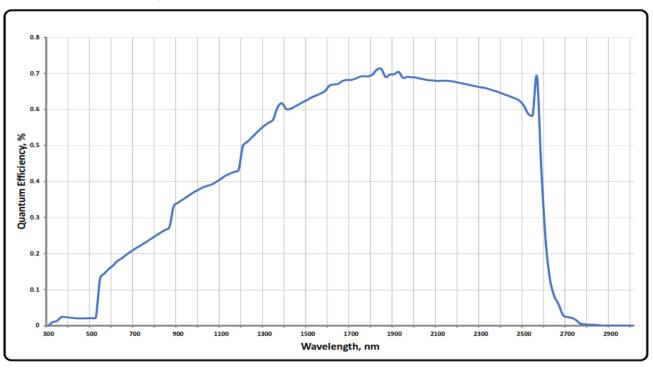
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Spectral Responsivity



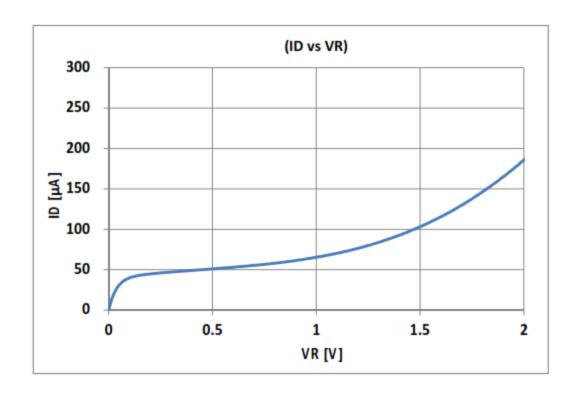
Quantum Efficiency

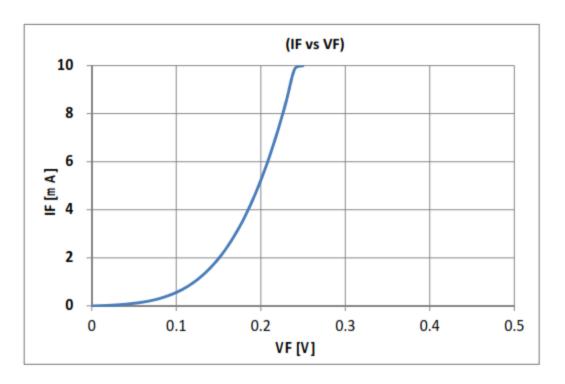


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