Preliminary



Product No: MTSM1346SMR1-030



ITEMS	SYMBOL	RATINGS	UNIT	
Active Area	Φ	0.3	mm	
Operating Temperature Range	Topr	-40 to +85	°C	
Storage Temperature Range	Tstg	-40 to +125	°C	

Note: Also available on PCB - Starboard MTSM1346SMR1-030S (See Page 3)

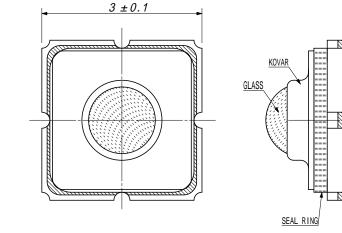
ITEMS	SYMBOL	CONDITIONS	MIN	ТҮР	MAX	UNIT
Breakdown Voltage	VR	IR=10uA			1	V
Sensitivity Range	λ	VR=0V	600		1750	nm
Dark Current	ID	VR=0V		0.025		nA
Dark Current	ID	VR=1V		16		nA
Junction Capacitance	С	VR=0V		12		pF
Junction Capacitance	С	VR=1V		10		pF
Responsivity	R	λ=1650nm		0.74		A/W
Quantum Efficiency	QE	λ=1660nm		55		%
Shunt Resistance	RSH	VR=10mV		12		MΩ
Light Current @\=1300nm	IL	If=10mA		35		μA
Light Current @λ=1300nm	IL	If=20mA		65		μA

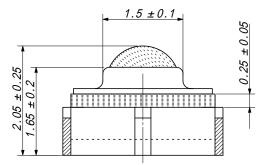
2024-01-18

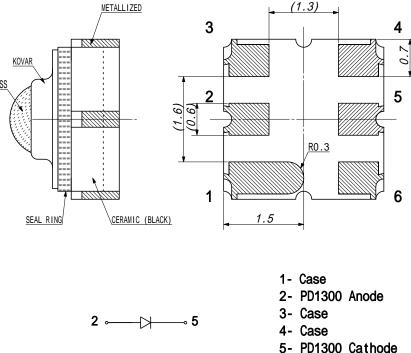


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Package Dimensions



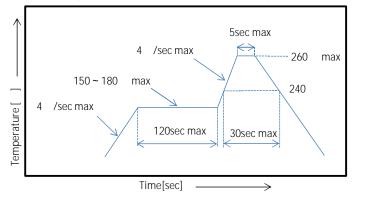


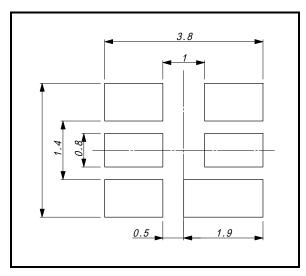


6- Case

Recommended Soldering Pattern [mm]

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





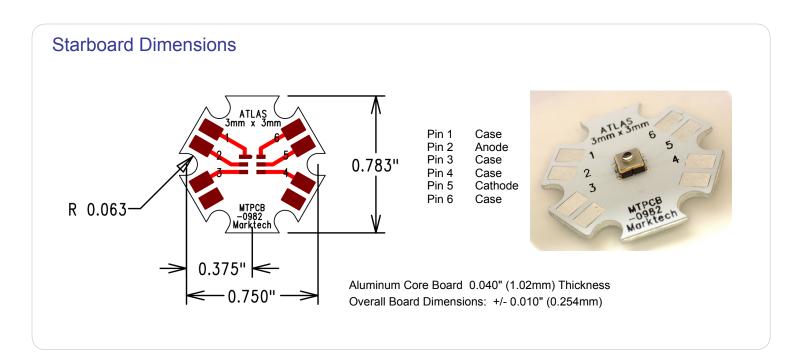
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Marktech High Speed InGaAs PIN Photodiode

Product No: MTSM1346SMR1-030





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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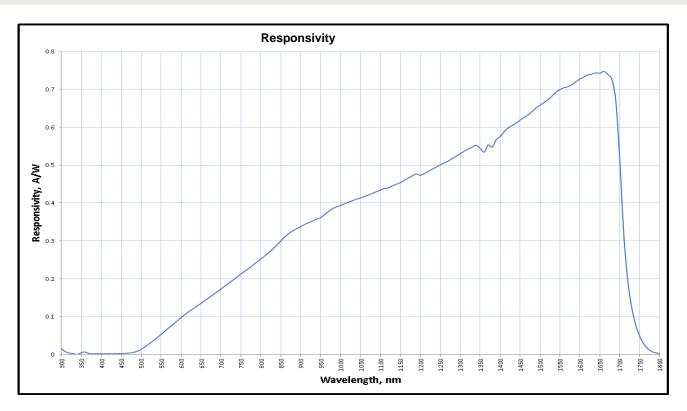
2024-01-18

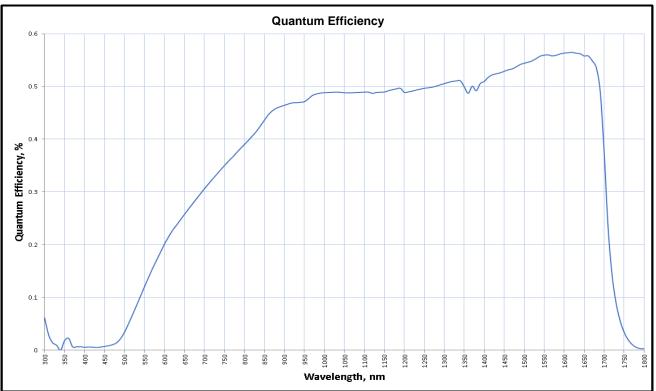
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Product No: MTSM1346SMR1-030



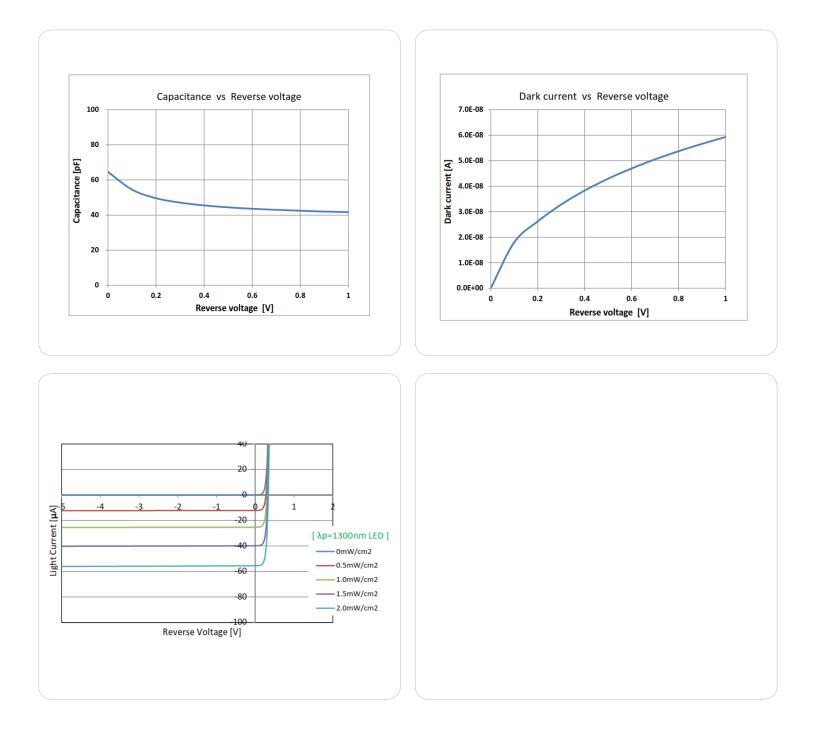


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Product No: MTSM1346SMR1-030



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