# Preliminary



# Marktech High Speed InGaAs PIN Photodiode

Product No: MTSM1346SMR2-150



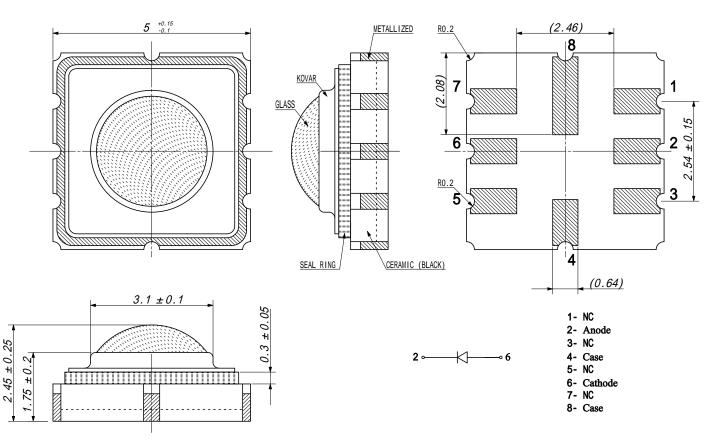
ITEMS	SYMBOL	RATINGS	UNIT
Active Area Operating Temperature Range	Ф Topr	1.5 -40 to +85	mm ℃
Storage Temperature Range	Tsta	-40 to +125	°C

ITEMS	SYMBOL	CONDITIONS	MIN	ТҮР	MAX	UNIT		
Breakdown Voltage	VR	IR=10uA			3	V		
Sensitivity Range	λ	VR=0V	600		1750	nm		
Dark Current	ID	VR=0V		0.01		nA		
Dark Current	ID	VR=1V		26		nA		
Junction Capacitance	С	VR=0V		12		pF		
Junction Capacitance	С	VR=1V		12		pF		
Responsivity	R	λ=1650nm		0.74		A/W		
Quantum Efficiency	QE	λ=1660nm		55		%		
Shunt Resistance	RSH	VR=10mV		665		MΩ		
Switching Times	Tr, Tf	VR=2V		1		ns		
Light Current @λ=1300nm	IL	If=10mA		250		μΑ		
Light Current @λ=1300nm	IL	If=20mA		500		μΑ		

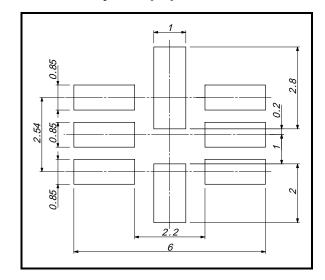


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### **Package Dimensions**



Recommended Soldering Pattern [mm]



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

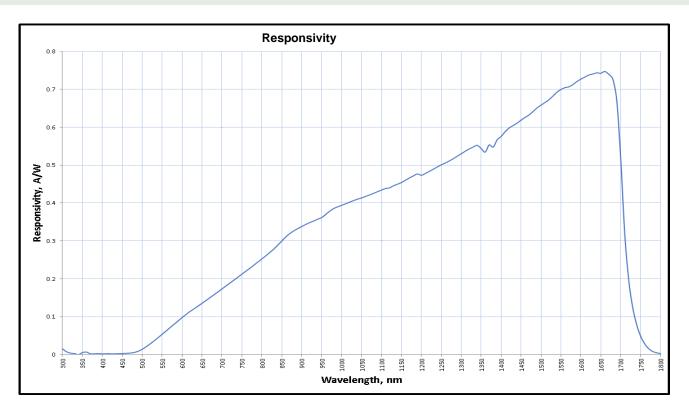
5sec max 4 /sec max 260 max 150~180 max 240 Temperature [ 4 /sec max 120sec max 30sec max Time[sec]  $\rightarrow$ 

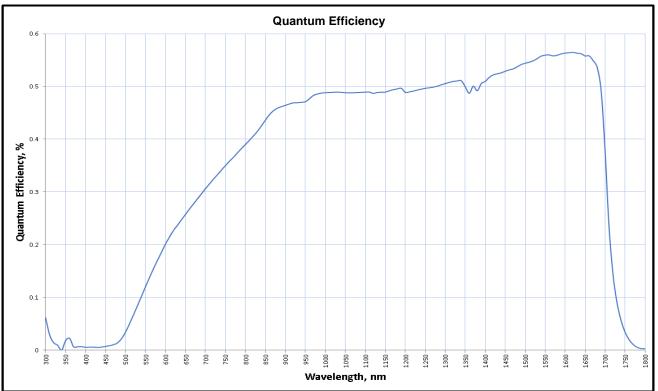
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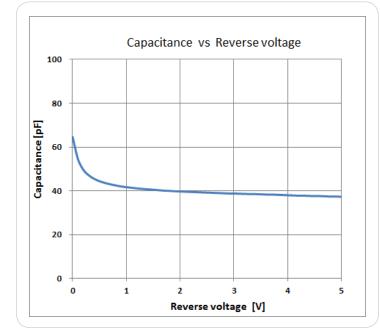


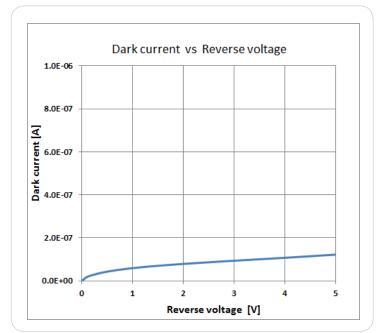


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