

Series 11 Silicon Photodiode

Product No: MT03-094

Description: MTSP25.€PX2ËFË

Sensitivity Wavelength Range: 350nm ~ 1100nm

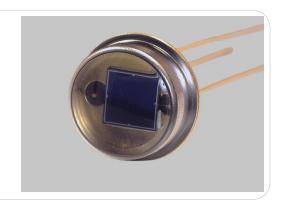
The MT03-094 is a square (5.0mm x 5.0mm) 25mm² active area Silicon Photodiode in a hermetic TO-8 metal package with a clear glass window. It is designed for applications requiring high red and near infrared (NIR) light sensitivity.

FEATURES

- > Ultra Low Noise
- > Very Low Dark Current
- > Wide Dynamic Range
- > Broadband Spectral Coverage

APPLICATIONS

- > Colorimeters
- > Photometerts
- > Spectroscopy Equiptment
- > Fluorescence



Absolute Maximum Ratings

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ITEMS	SYMBOL	RATINGS	UNIT					
Reverse Voltage	Vr	80	V					
Operating Temperature Range	Topr	-40 to +85	°C					
Storage Temperature Range	Tstg	-40 to +125	°C					
Lead Soldering Temperature*1	Tls	260	°C					

*1: Time 5 Sec max, Position: Up to 3mm from the body.

Electrical & Optical Characteristics (Ta = 22°C)

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ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Breakdown Voltage	V BR	IR=10uA	50			V
Sensitivity Range	λ	VR=0V	350		1100	nm
Dark Current	Id	VR=5V		0.5	5	nA
NEP @ 880nm		$VR=5V$; $RL=50\Omega$		2.3x10 ⁻¹⁴		W/Hz ^{1/2}
Capacitance	Cj	VR=0V; 1MHz		300		рF
Capacitance	Cj	VR=5V; 1MHz		76	85	pF
Responsivity	R	λ=633nm		.43		A/W
Responsivity	R	λ =950nm		.61		A/W
Forward Voltage	Vf	IF=2mA			0.6	V
Shunt Resistance	Rsh	VR=+/-10mV		300		ΜΩ

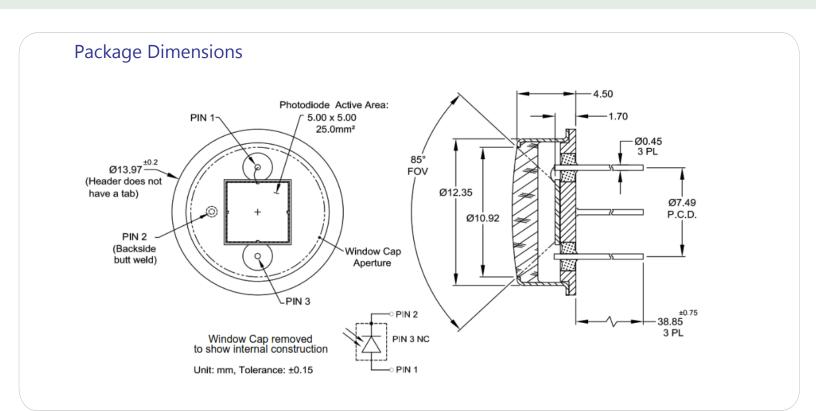
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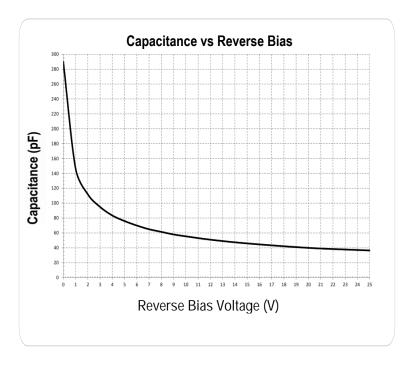


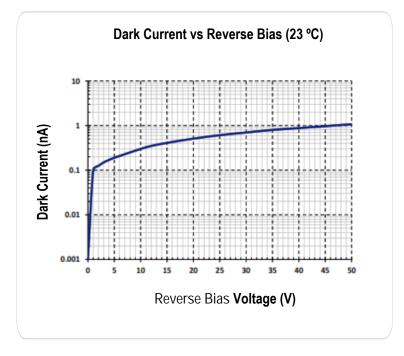


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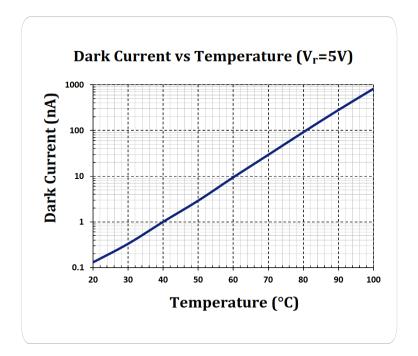
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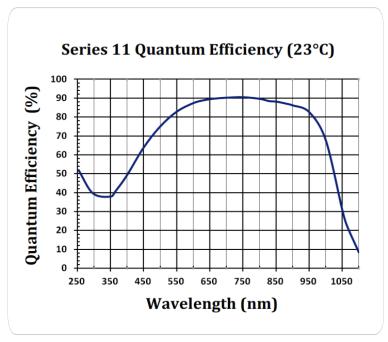


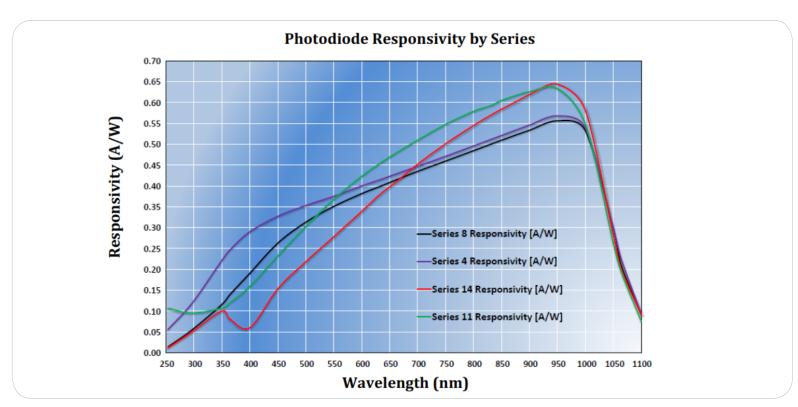


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The information contained herein is subject to change without notice.

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