

Sensitivity Wavelength Range: 350nm ~ 1100nm

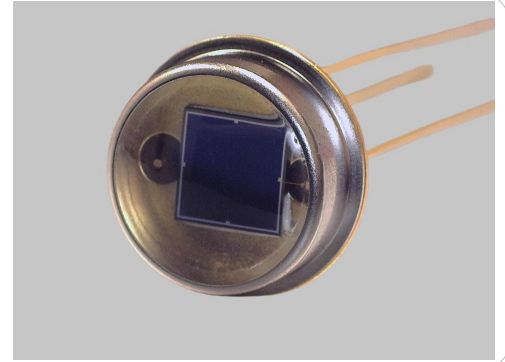
The MT03-095 is a square (5.0mm x 5.0mm) 25mm² active area Silicon Photodiode in a hermetic TO-8 metal package with a clear glass window. Also available with both anode and cathode isolated and/or with a sapphire or fused silica window cap.

FEATURES

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

APPLICATIONS

- > Particle Counters
- > Photometers
- > Spectroscopy Equipment



Absolute Maximum Ratings

ITEMS	SYMBOL	RATINGS	UNIT
Reverse Voltage	Vr	60	V
Operating Temperature Range	Topr	-40 to +85	°C
Storage Temperature Range	Tstg	-40 to +125	°C
Lead Soldering Temperature*1	Tls	260	°C



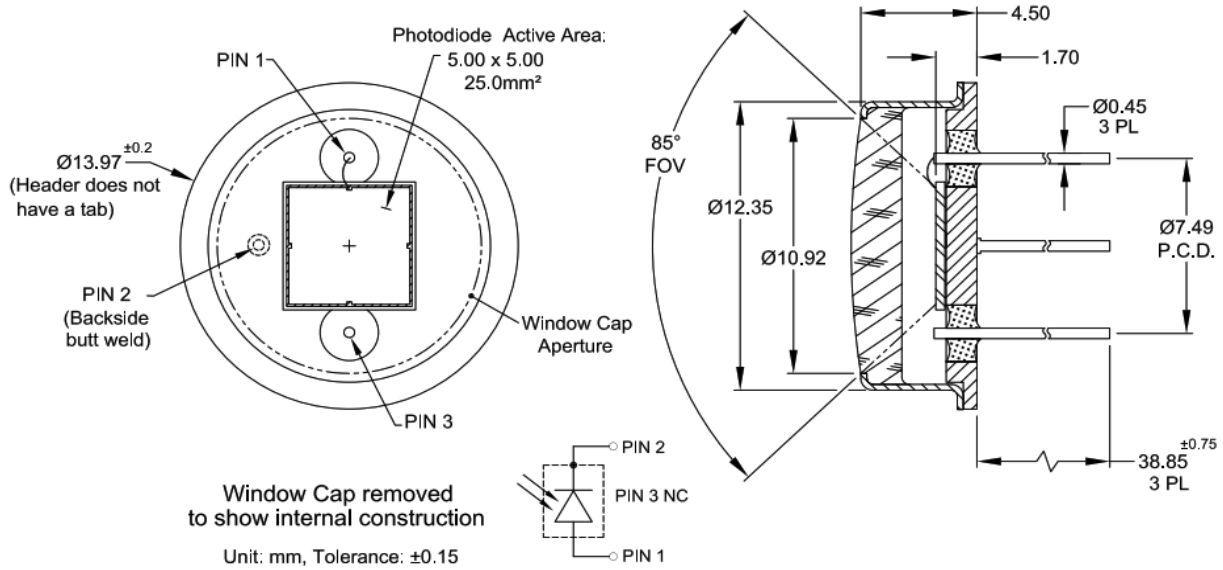
*1: Time 5 Sec max, Position: Up to 3mm from the body.

Electrical & Optical Characteristics (Ta = 22°C)

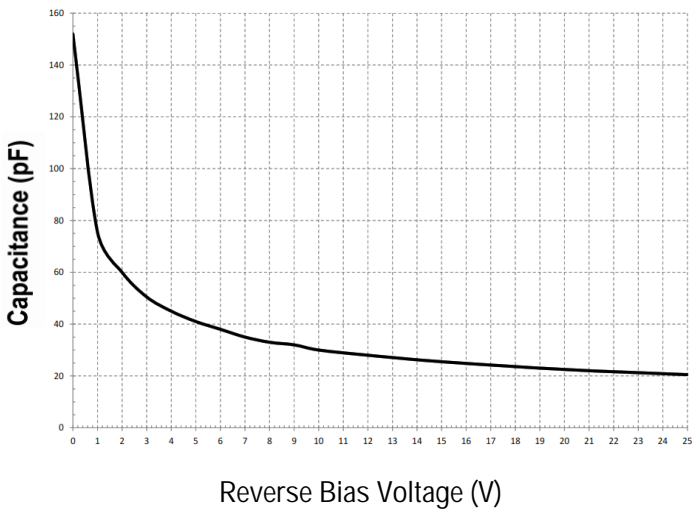
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Breakdown Voltage	VBR	IR=10uA	50	--	--	V
Sensitivity Range	λ	VR=0V	350	--	1100	nm
Dark Current	Id	VR=5V	--	1.0	8	nA
NEP @ 880nm		VR=5V; RL=50Ω	--	3.3x10 ⁻¹⁴	--	W/Hz ^{1/2}
Capacitance	Cj	VR=0V; 1MHz	--	155	--	pF
Capacitance	Cj	VR=5V; 1MHz	--	40	50	pF
Responsivity	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	--	100	--	MΩ



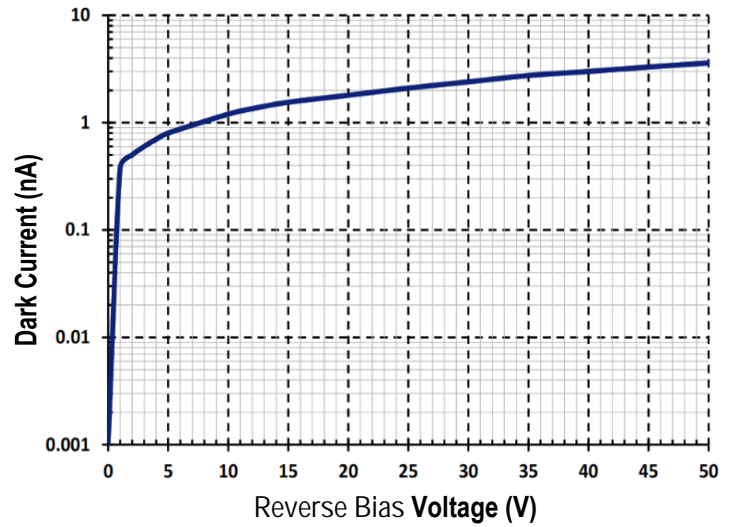
Package Dimensions



Capacitance vs Reverse Bias



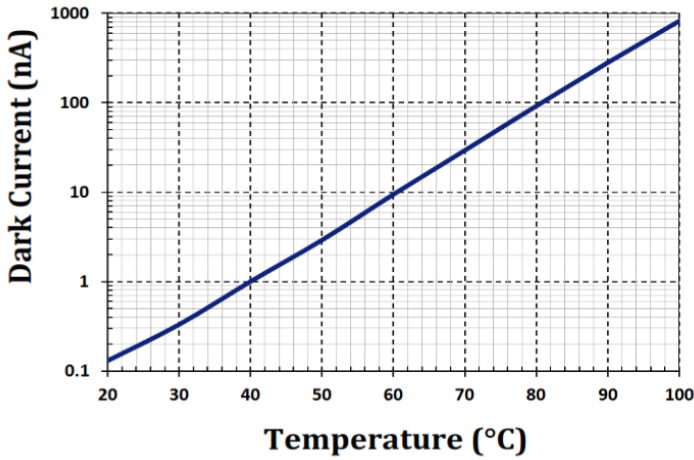
Dark Current vs Reverse Bias (23 °C)



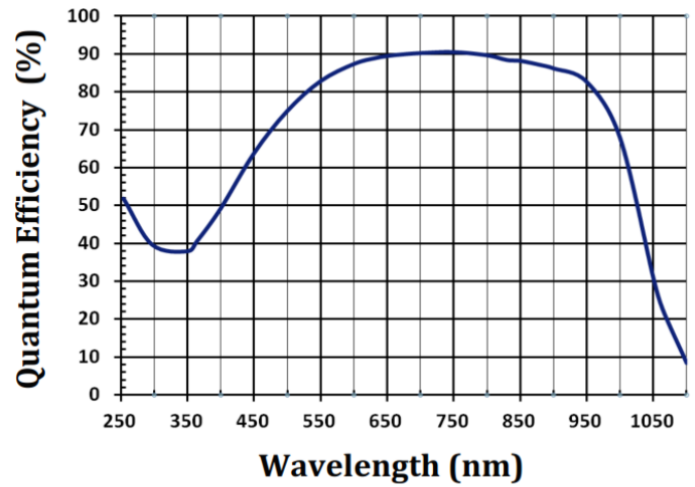


Product No: **MT03-095**
Description: **MTSP25.0PX4EFH**

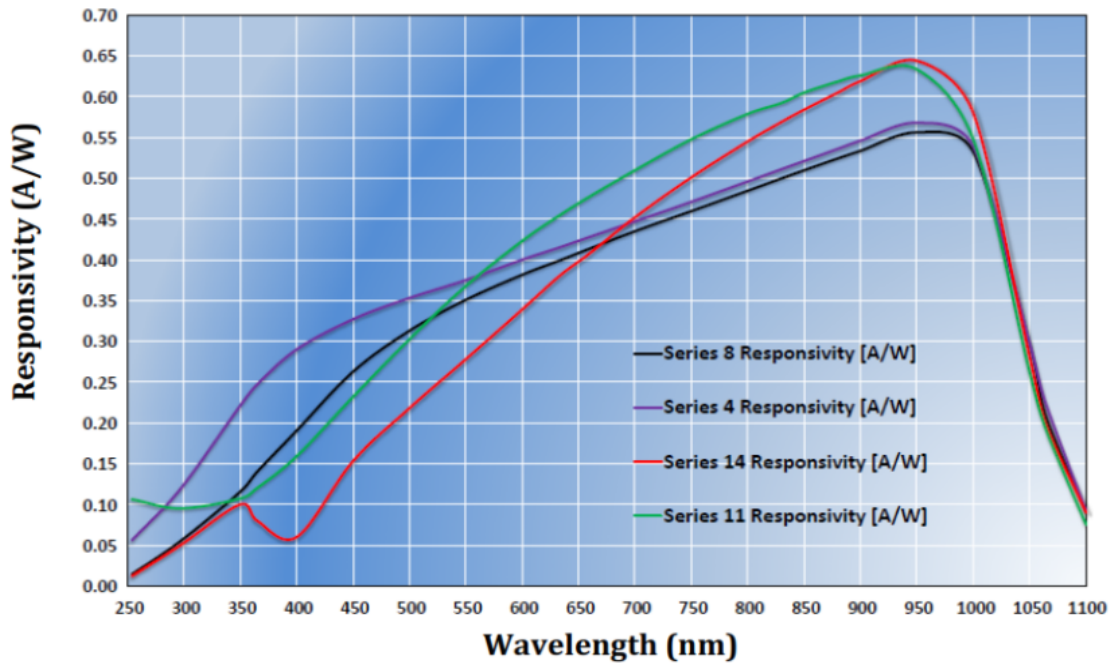
Dark Current vs Temperature ($V_r=5V$)



Series 11 Quantum Efficiency (23°C)



Photodiode Responsivity by Series



The information contained herein is subject to change without notice.

2025-11-26