

# Series 11 Silicon Photodiode

Product No: MT03-095

Description: MTSP25.€PX4ËFË

### Sensitivity Wavelength Range: 350nm ~ 1100nm

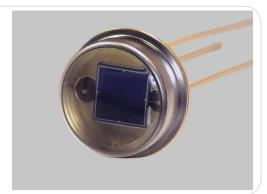
The MT03-095 is a square (5.0mm  $\times$  5.0mm) 25mm<sup>2</sup> active area Silicon Photodiode in a hermetic TO-8 metal package with a clear glass window. Also available with both anode and cathode isolated and/or with a sapphire or fused silica window cap.

#### **FEATURES**

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

#### **APPLICATIONS**

- > Particle Counters
- > Photometers
- > Spectroscopy Equipment



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

<sup>\*1:</sup> 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		3.3×10 <sup>-14</sup>		W/Hz <sup>1/2</sup>		
Capacitance	Cj	VR=0V; 1MHz		155		рF		
Capacitance	Cj	VR=5V; 1MHz		40	50	pF		
Responsivity	R	λ=633nm		.43		A/W		
Responsivity	R	$\lambda$ =950nm		.61		A/W		
Forward Voltage	Vf	IF=2mA			0.6	V		
Shunt Resistance	Rsh	VR = +/-10mV		100		ΜΩ		

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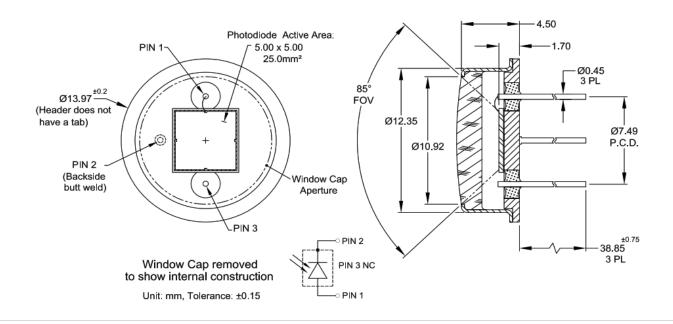


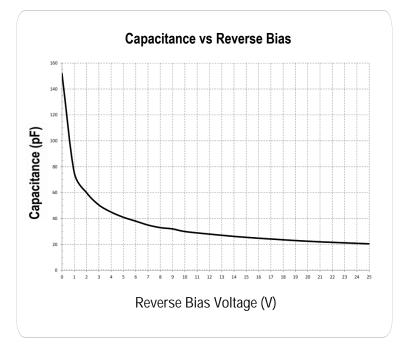


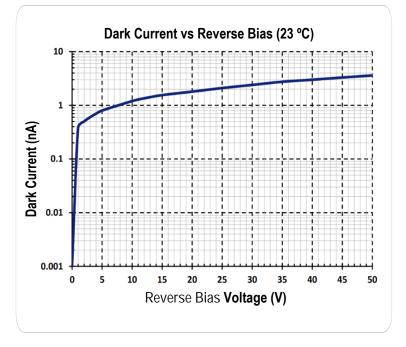
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## **Package Dimensions**





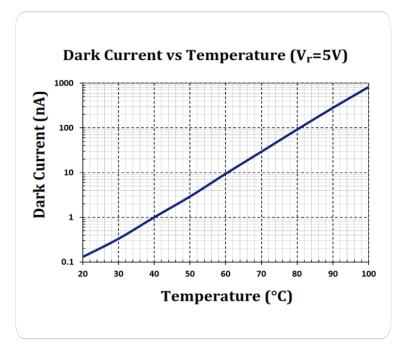


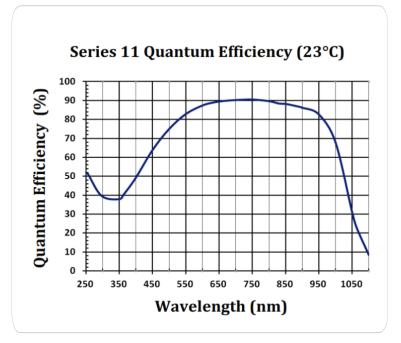
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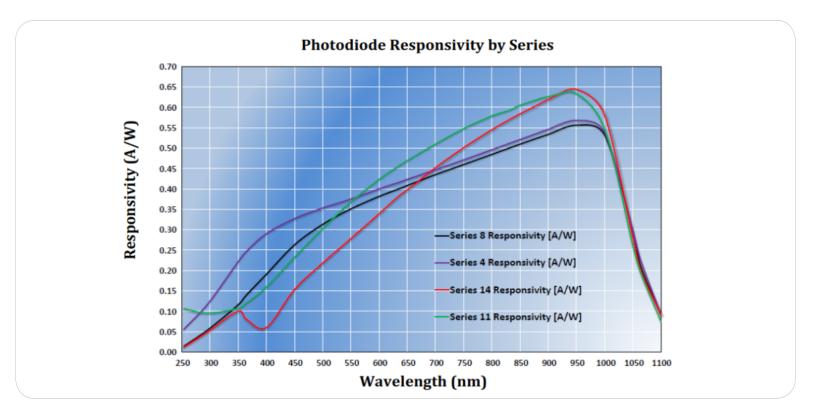


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The information contained herein is subject to change without notice.

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