

Sensitivity Wavelength Range: 220nm ~ 358nm

The MT12-004 is a square (1.0mm x 1.0mm) 1.0mm<sup>2</sup> active area Silicon Carbide Photodiode in an isolated, hermetic TO-46 package with a UV transmitting glass window. Custom packaging options for this die are available

## FEATURES

- > Hermetically Sealed Package
- > TO-46 Can Package
- > High Sensitivity
- > Spectral Range: 220nm - 358nm



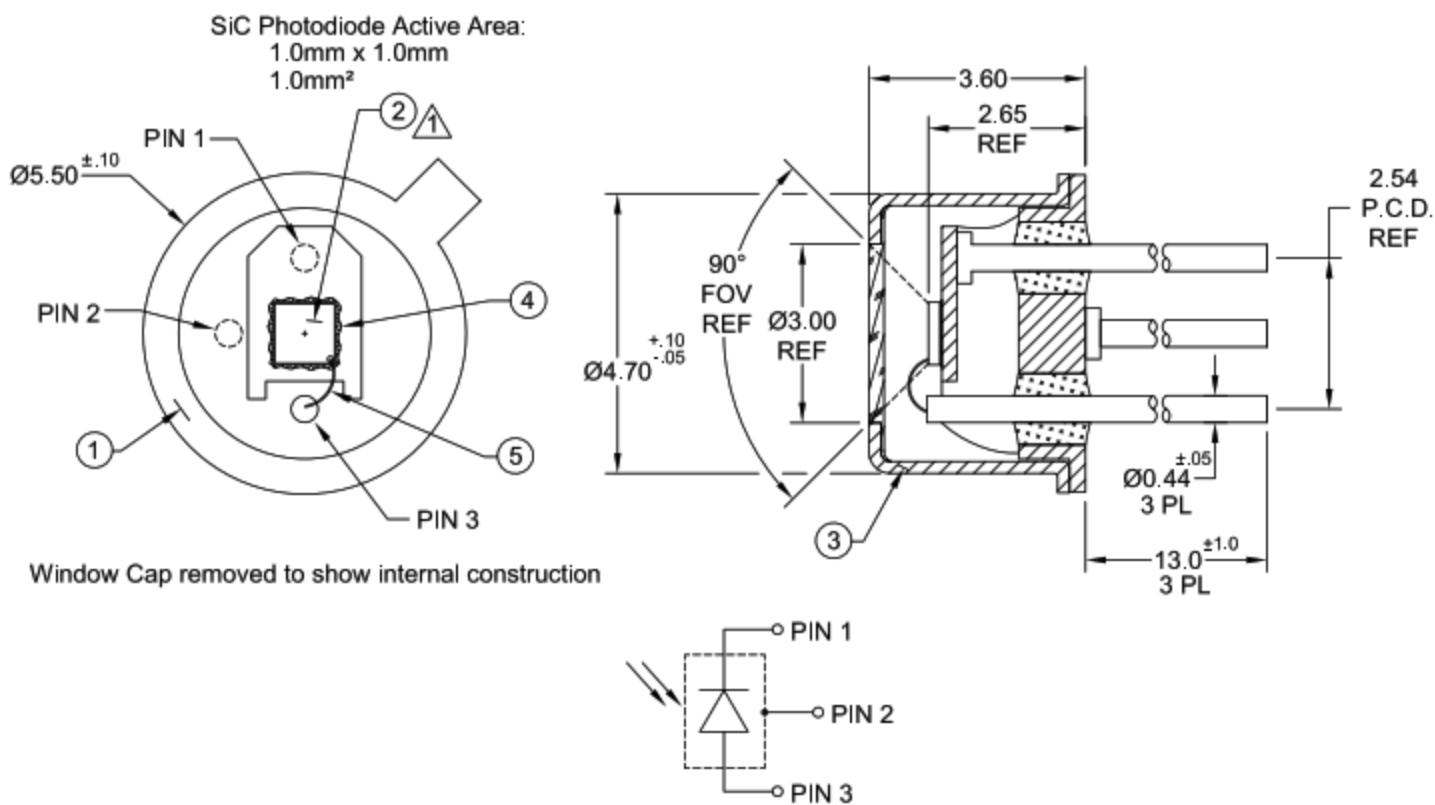
## Absolute Maximum Ratings (Ta=25°C)

ITEMS	SYMBOL	RATINGS	UNIT
Operating Temperature Range	Topr	--	°C
Storage Temperature Range	Tstg	-55 to +170	°C
Reverse Breakdown Voltage	Vr	50	V

## Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Responsivity	R	$\lambda=220\text{nm}$	--	0.013	--	A/W
Responsivity	R	$\lambda=280\text{nm}$	--	0.13	--	A/W
Responsivity	R	$\lambda=358\text{nm}$	--	0.013	--	A/W
Dark Current	$I_d$	$VR=1\text{V}$	--	0.1	10	pA
Sensitivity Range	$\lambda$	$VR=0\text{V}$	220	--	358	nm
Breakdown Voltage	$V_{(BR)}$	$IR=10\mu\text{A}$	50	--	--	V
Serial Capacitance	$C_s$	$V=0\text{V}, 1\text{MHz}$	--	15.0	--	pF

## Package Dimensions

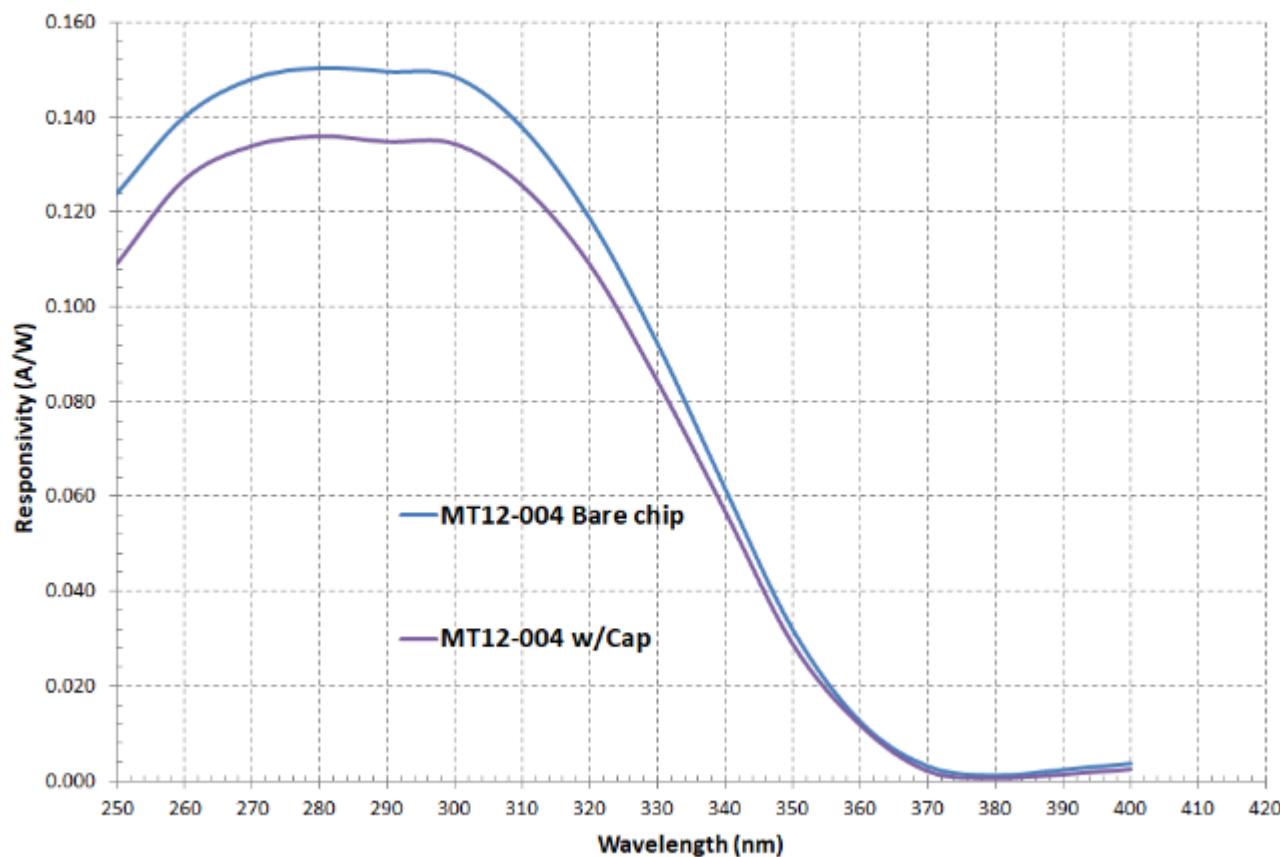


The information contained herein is subject to change without notice.

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## Responsivity

**Responsivity for MT12-004 With and Without UV Window Cap**



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