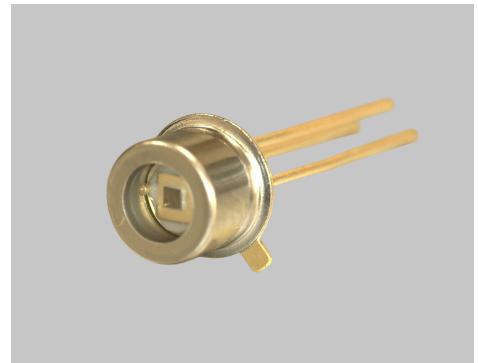


Sensitivity Wavelength Range: 220nm ~ 358nm

The MT12-003 is a square (0.71mm x 0.71mm) 0.50mm² 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



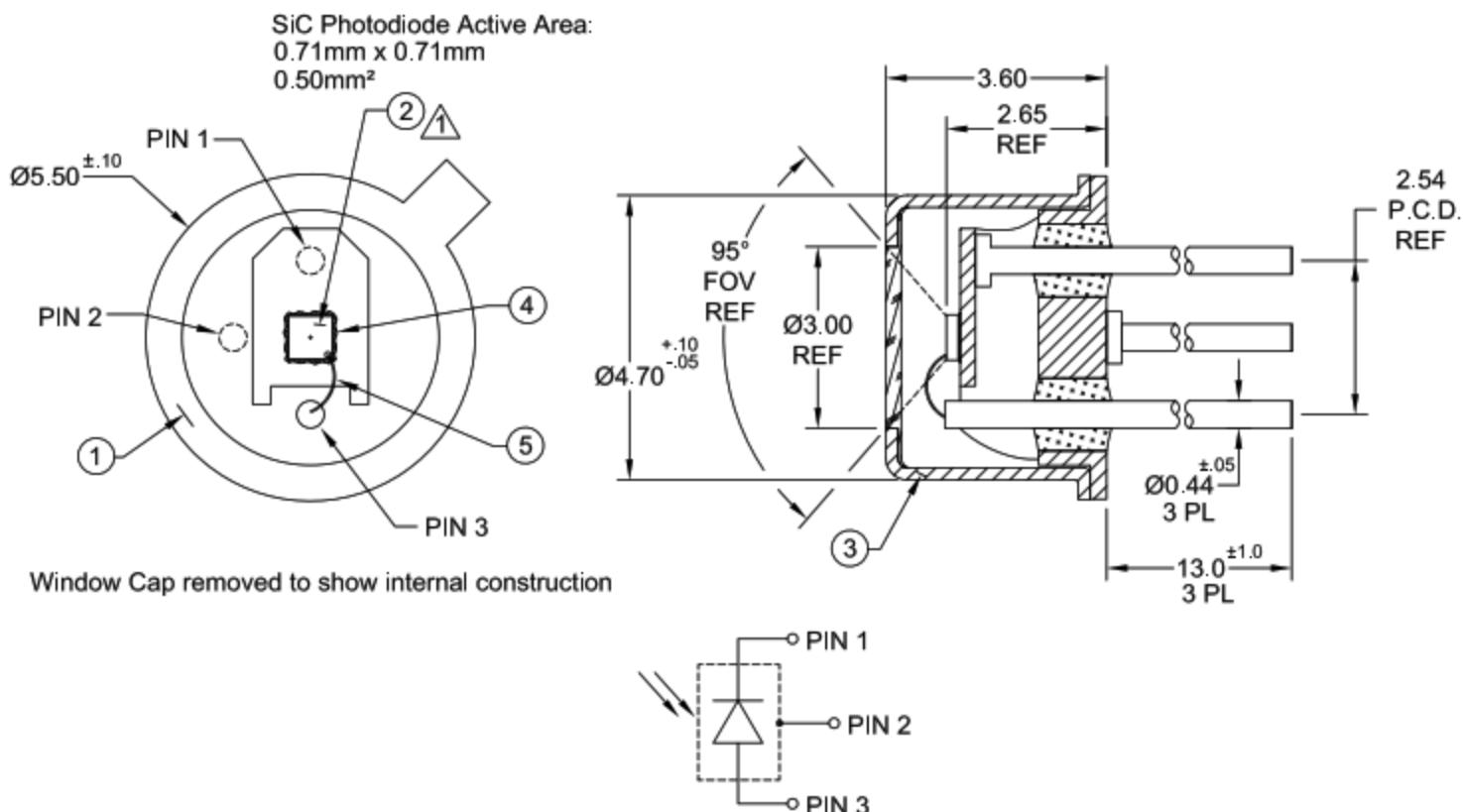
Absolute Maximum Ratings (Ta=25°C)

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	λ	$VR=0\text{V}$	220	--	358	nm
Breakdown Voltage	$V_{(BR)}$	$IR=10\mu\text{A}$	50	--	--	V
Serial Capacitance	C_s	$V=0\text{V}, 1\text{MHz}$	--	8.0	--	pF

Package Dimensions

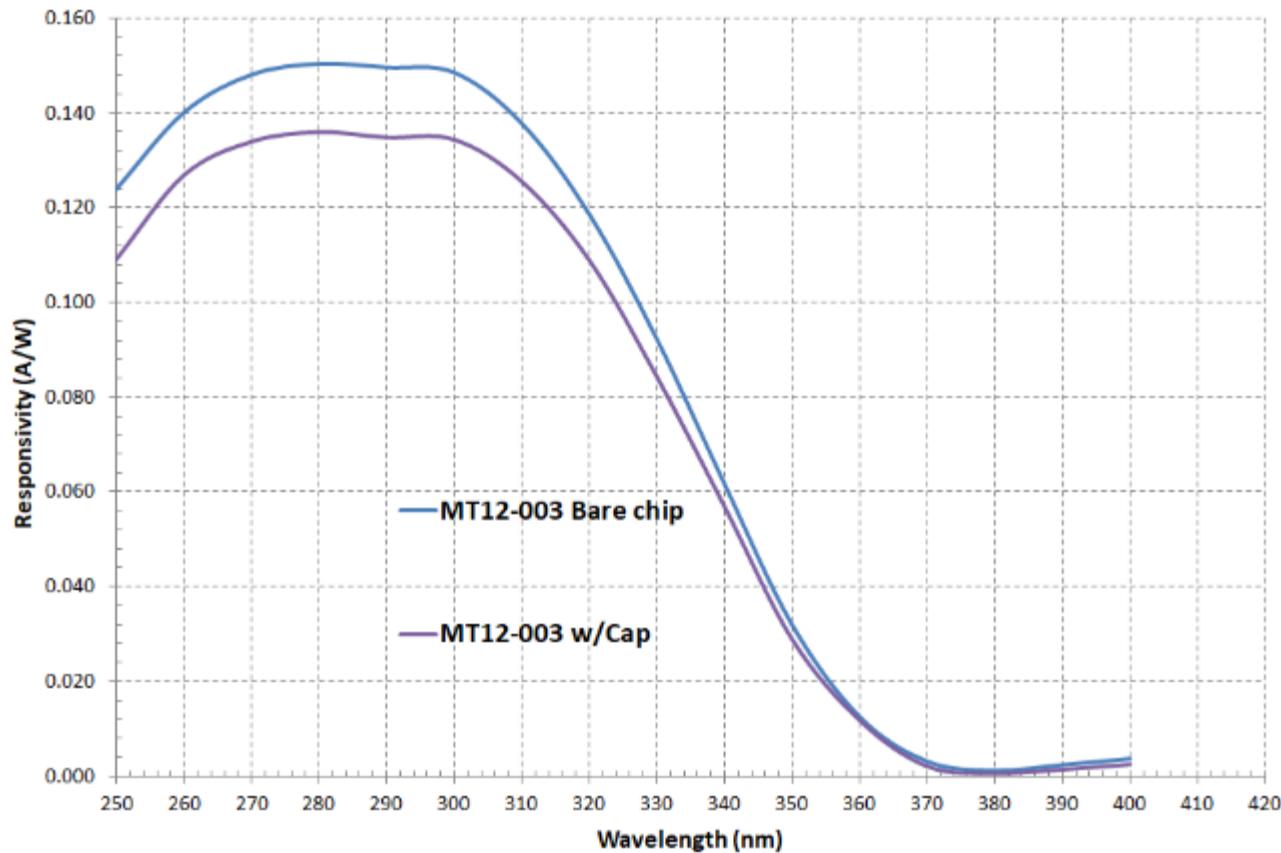


The information contained herein is subject to change without notice.

2025-09-19

Responsivity

Responsivity for MT12-003 With and Without UV Window Cap



The information contained herein is subject to change without notice.

2025-09-19