



# UVC photodiode

Model GT-UVC-L

## General Features:

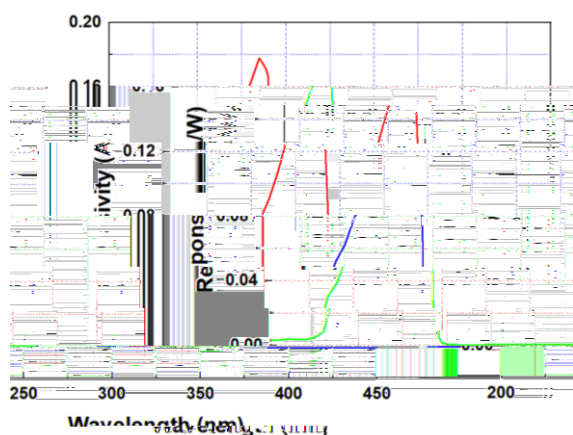
- Selective response to UVC band
- Photovoltaic mode operation
- TO-46 metal housing
- Good solar blindness
- High responsivity and low dark current

**Applications:** UV sterilizing lamp monitoring, UV radiation dose measurement, flame detection

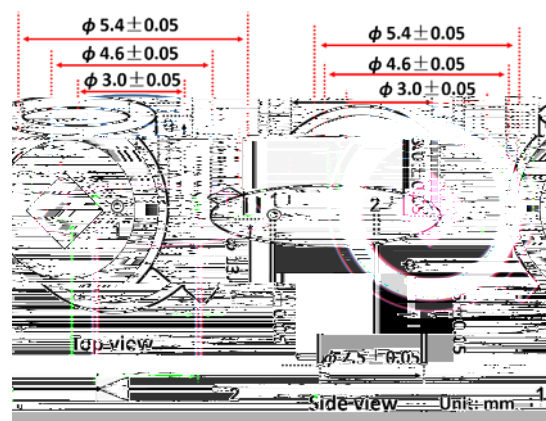
## Specifications:

Parameters	Symbol	Value	Unit
<b>Maximum ratings</b>			
Operation temperature range	$T_{opt}$	-25-85	°C
Storage temperature range	$T_{sto}$	-40-80	°C
Soldering temperature (3 s)	$T_{sol}$	260	°C
Reverse voltage	$V_{r-max}$	-10	V
<b>General characteristics (25 °C)</b>			
Chip size	A	1	mm <sup>2</sup>
Dark current ( $V_r = -1$ V)	$I_d$	<1	nA
Temperature coefficient (@265 nm)	$T_c$	0.05	%/°C
Capacitance (at 0 V and 1 MHz)	$C_p$	18	pF
<b>Spectral response characteristics (25 °C)</b>			
Wavelength of peak responsivity	$\rho$	285	nm
Peak responsivity (at 285 nm)	$R_{max}$	0.178	A/W
Spectral response range ( $R=0.1 \times R_{max}$ )	-	225-290	nm
UV-visible rejection ratio ( $R_{max}/R_{400\text{ nm}}$ )	-	$>10^4$	-

## Spectral response



## Package dimensions

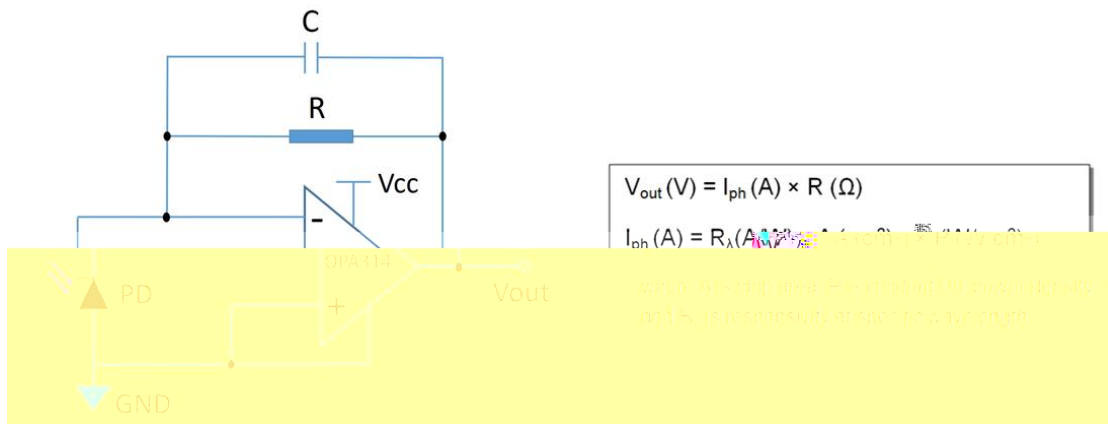




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## Application circuit:



## Evaluation circuit board:

A

