

# UV-C Sensor

## GUVC-T21BD-L



- Features**
- Aluminium Gallium Nitride Based Material
  - Schottky-type Photodiode
  - Photovoltaic Mode Operation
  - Good Solar Blindness
  - Large Size (1.4 mm × 1.4 mm)

**Applications** Flame Detection



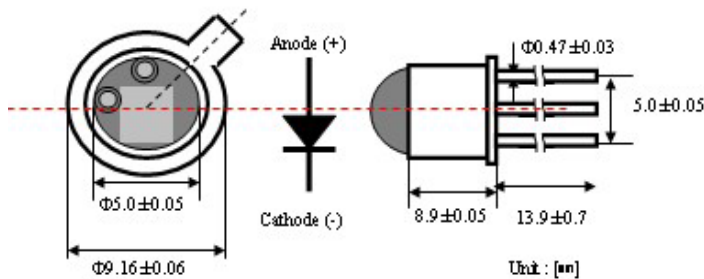
### Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	$T_{st}$	-40	90		
Operating Temperature	$T_{op}$	-30	85		
Reverse Voltage	$V_{r,max}$		3	V	
Forward Current	$I_{f,max}$		1	mA	
Soldering Temperature	$T_{sol}$		260		within 10 sec.

### Characteristics (at 25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	$I_d$			1	nA	$V_r = 0.1$ V
Photo Current	$I_{ph}$		7.6		$\mu$ A	UVC Lamp, 1mW/cm <sup>2</sup>
Temperature Coefficient	$I_{tc}$		-0.07		%/°C	UVC Lamp
Responsivity	R		0.4		A/W	$\lambda = 270$ nm, $V_r = 0$ V
Spectral Detection Range	$\lambda$	220		280	nm	
Breakdown Voltage	$V_{BR}$		5		V	$I_r = 1$ $\mu$ A

### Outline Diagrams and Dimensions



### Responsivity Curve

