

# UV-C LED Sensor

## GUVCL-T10GD

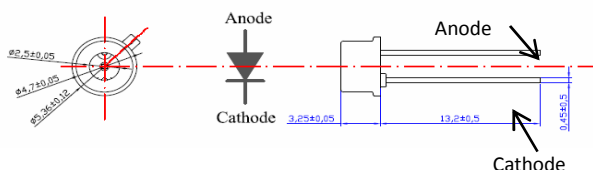


- Features**
- Aluminium Gallium Nitride Based Material
  - Schottky-type Photodiode
  - Photovoltaic Mode Operation
  - Good Solar Blindness



- Applications**
- UV-C LED Monitoring (265,270,280nm)**
  - Pure UV-C Monitoring
  - Sterilization Lamp Monitoring

**Outline Diagrams and Dimensions**



**Absolute Maximum Ratings**

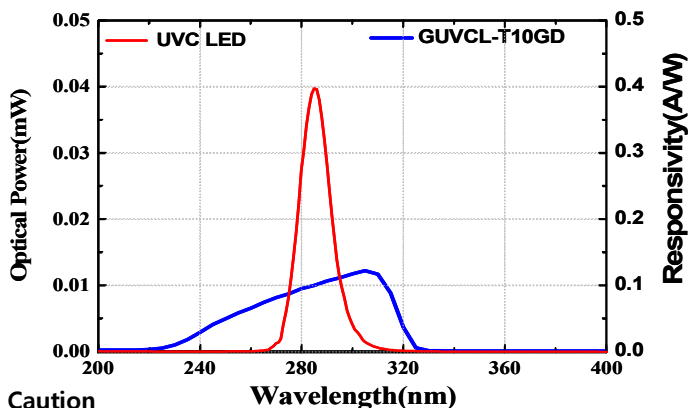
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T <sub>st</sub>	-40	90	°C	
Operating Temperature	T <sub>op</sub>	-30	85	°C	
Reverse Voltage	V <sub>r, max.</sub>		3	V	
Forward Current	I <sub>f, max.</sub>		1	mA	
Optical Source Power Range	P <sub>opt</sub>	0.1μ	100m	W/cm <sup>2</sup>	UVC LED
Soldering Temperature	T <sub>sol</sub>		260	°C	within 10 sec.

※Notice: apply to us in the case that Optical Source Power is over 100,000μW/cm<sup>2</sup>.

**Characteristics (at 25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I <sub>d</sub>			1	nA	V <sub>r</sub> = 0.1 V
Photo Current	I <sub>ph</sub>	111	123	135	nA	UVC LED, 1mW/cm <sup>2</sup>
Temperature Coefficient	I <sub>tc</sub>		0.1		%/°C	UVC LED
Responsivity	R		0.1		A/W	λ = 280 nm, V <sub>r</sub> = 0 V
Spectral Detection Range	λ	230		320	nm	10% of R
Active area			0.076		mm <sup>2</sup>	

**Responsivity Curve**



**Caution**

ESD can damage the device hence please avoid ESD. Insulate the cap of TO-CAN or it can cause malfunction of the device.