UV-C LED Sensor

GUVCL-T10GD

Genuine UV Technology

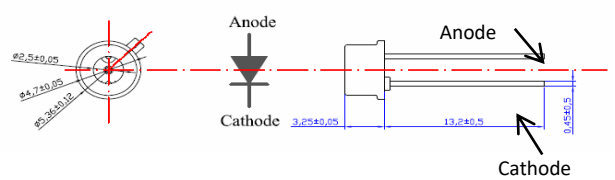
Features

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

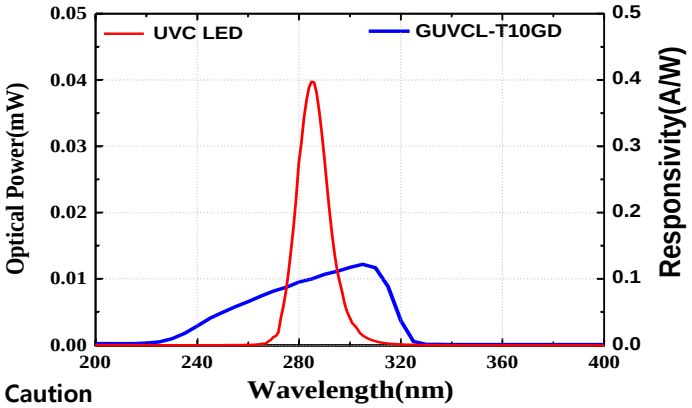
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	℃	
Operating Temperature	T_{op}	-30	85	℃	
Reverse Voltage	$V_{r,\ max.}$		3	V	
Forward Current	$I_{f,max.}$		1	mA	
Optical Source Power Range	P_{opt}	0.01	100	mW/㎠	UVC LED
Soldering Temperature	T_{sol}		260	℃	within 10 sec.

※Notice: apply to us in the case that Optical Source Power is over 100,000㎼/㎠.

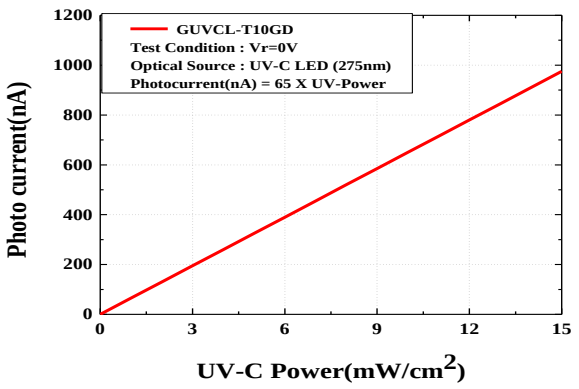
Characteristics (at 25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			1	nA	Vr = 0.1 V
Photo Current	I_{ph}	58	65	72	nA	UVC LED, 1㎽/㎠
Temperature Coefficient	I_{tc}		0.1		%/℃	UVC LED
Responsivity	R		0.1		A/W	λ = 280 ㎚, Vr = 0 V
Spectral Detection Range	λ	230		320	㎚	10% of R
Active area			0.076		㎟	

Responsivity Curve



Output Voltage along UV Power



Caution

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