

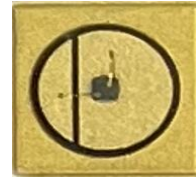
UVC LED Sensor

GUVCL-S10GD-C



Features

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

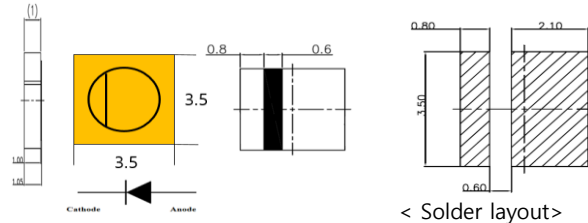


Applications

UV-C LED Monitoring
(265,270,280nm)

Pure UV-C Monitoring
Sterilization Lamp Monitoring

Outline Diagrams and Dimensions



Absolute Maximum Ratings

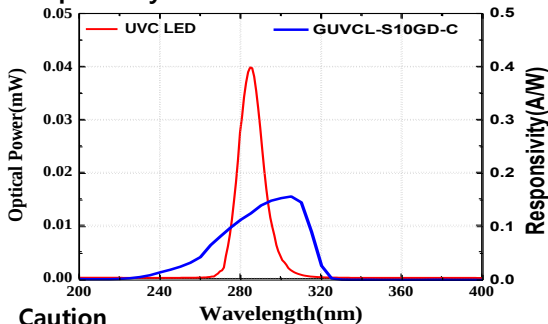
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	°C	
Operating Temperature	T_{op}	-30	85	°C	
Reverse Voltage	$V_{r, max.}$		3	V	
Forward Current	$I_{f, max.}$		1	mA	
Optical Source Power Range	P_{opt}	0.01	100	mW/cm ²	UVC LED
Soldering Temperature	T_{sol}		260	°C	within 10 sec.

※Notice: apply to us in the case that Optical Source Power is over 100mW/cm²

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}	61	68	74	nA	UVC LED, 1mW/cm ²
Temperature Coefficient	I_{tc}		0.1		%/°C	UVC LED
Responsivity	R		0.12		A/W	$\lambda = 280$ nm, $V_r = 0$ V
Spectral Detection Range	λ	230		320	nm	10% of R
Active area			0.076		mm ²	

Responsivity Curve



Caution

ESD can damage the device hence please avoid ESD.

Photocurrent along UV Power

