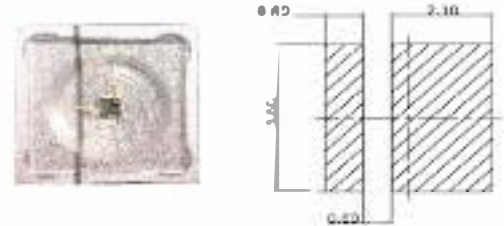


UV-C LED Sensor

GUVCL-S10GD

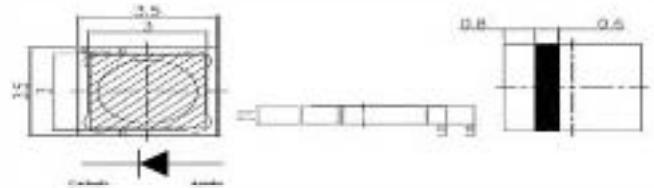


- Features**
- Aluminium Gallium Nitride Based Material
 - Schottky-type Photodiode
 - Photovoltaic Mode Operation
 - Good Solar Blindness



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

Outline Diagrams and Dimensions



Absolute Maximum Ratings

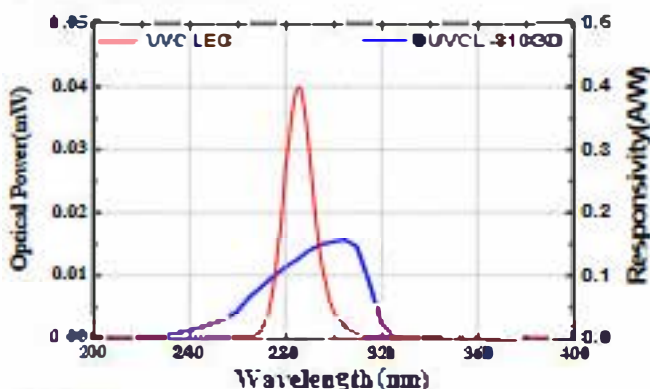
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	°C	
Operating Temperature	T_{op}	-30	85	°C	
Reverse Voltage	$V_{r,max}$		3	V	
Forward Current	$I_{f,max}$		1	mA	
Optical Source Power Range	P_{opt}	0.01	100	mW/cm ²	UVC LED
Soldering Temperature	T_{soll}		260	°C	within 10 sec.

※Notice: apply to us in the case that Optical Source Power is over 100.000mW/cm².

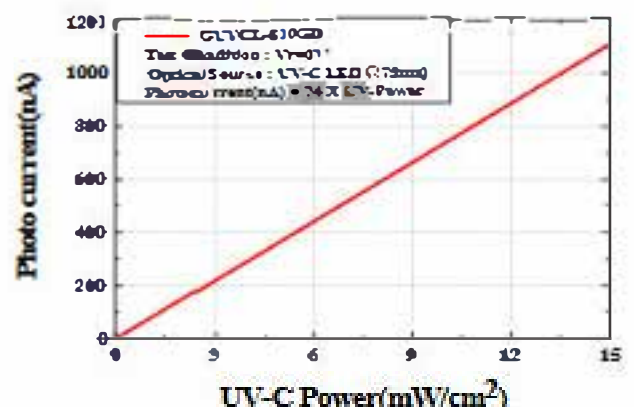
Characteristics (at 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			1	nA	$V_r = 0.1$ V
Photo Current	I_{ph}	67	74	84	nA	UVC LED, 1mW/cm ²
Temperature Coefficient	I_c		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



Output Voltage along UV Power



Caution

ESD can damage the device hence please avoid ESD.