

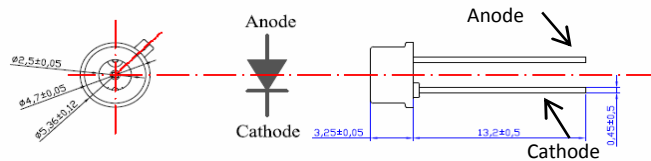
UV-B Sensor GUVB-T11GD-L

- Features**
- Aluminium Gallium Nitride Based Material
 - Schottky-type Photodiode
 - Photovoltaic Mode Operation
 - Good Visible Blindness
 - High Responsivity & Low Dark Current



- Applications**
- UV-B Lamp Monitoring
 - UV-B LED Monitoring

Outline Diagrams and Dimensions



Absolute Maximum Ratings

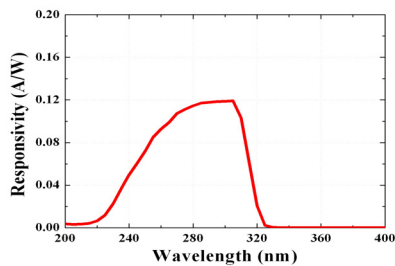
Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	°C	
Operating Temperature	T_{op}	-30	85	°C	
Reverse Voltage	$V_{r, max.}$		3	V	
Forward Current	$I_{f, max.}$		1	mA	
Optical Source Power Range	P_{opt}	0.01 μ	100m	W/cm ²	UVB Lamp
Soldering Temperature	T_{sol}		260	°C	within 10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

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

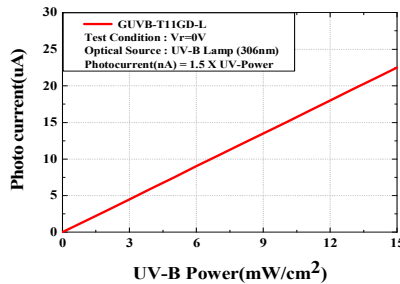
Characteristics (at 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			20	nA	$V_r = 0.1 V$
Photo Current	I_{ph}	1.35	1.5	1.65	μA	UVB Lamp, 1mW/cm ²
Temperature Coefficient	I_{tc}		0.1		%/°C	UVB Lamp
Responsivity	R		0.13		A/W	$\lambda = 300 nm, V_r = 0 V$
Spectral Detection Range	λ	220		320	nm	10% of R
Active area			1.536		mm ²	

Responsivity Curve



Photocurrent 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.

深圳市杰晟兴电子有限公司 JM Components Limited

地址: 深圳市福田区中航路7号鼎诚国际大厦南座2007室
手机: 13662266995 马少良 电话: 0755-83951311
官网: cn-sensor.com

邮编: 518031
传真: 0755-83952401
电邮: jackson@jmcomponents.com