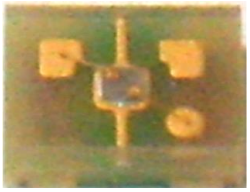
ROITHNER LASERTECHNIK GmbH
WIEDNER HAUPTSTRASSE 76 1040 VIENNA AUSTRIA
TEL. +43 1 586 52 43 -0, FAX. -44, OFFICE@ROITHNER-LASER.COM

GUVA-C22SD



TECHNICAL DATA

UV-B Sensor

Features

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

Applications

- UV Index Monitoring
- UV-A Lamp Monitoring

Absolute Maximum Ratings

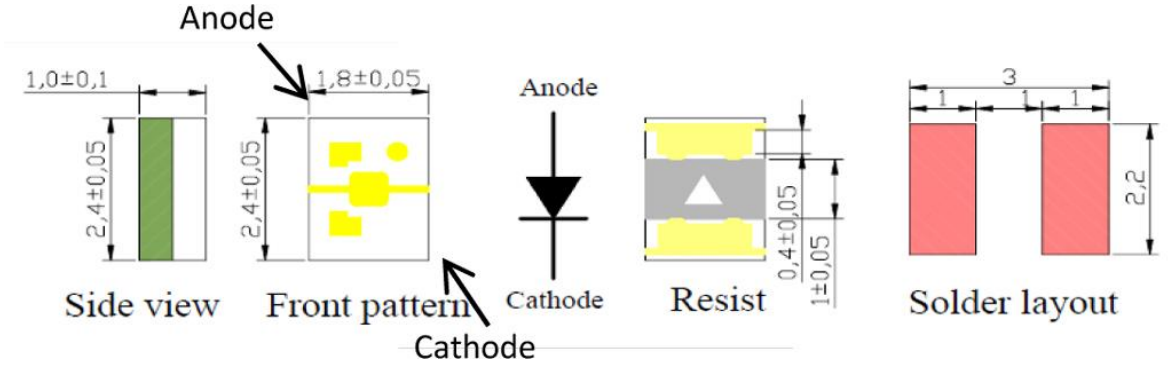
Item	Symbol	Value	Unit
Forward Current	I_F	1	mA
Reverse Voltage	V_R	5	V
Optical Source Power Range	P_{opt}	0.1 µ - 100m	W/cm²
Operating Temperature	T_{op}	-30 … +85	°C
Storage Temperature	T_{st}	-40 … +90	°C
Soldering Temperature *	T_{sol}	260	°C

* must be completed within 10 seconds

Characteristics (25°C)

Item	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Dark Current	I_D	V_R = 0.1 V	-	-	1	nA
Photo Current	I_{PD}	UVA Lamp, 1 mW/cm²	101	113	125	nA
		1 UVI	-	17	-	nA
Temperature Coefficient	I_{TC}	UVA Lamp	-	0.08	-	% / °C
Responsivity	R	λ = 350 nm, V_R = 0 V	-	0.14	-	A/W
Spectral Detection Range	λ	10% of R	240	-	370	nm
Active Area			0.076			Mm²

Package Dimension



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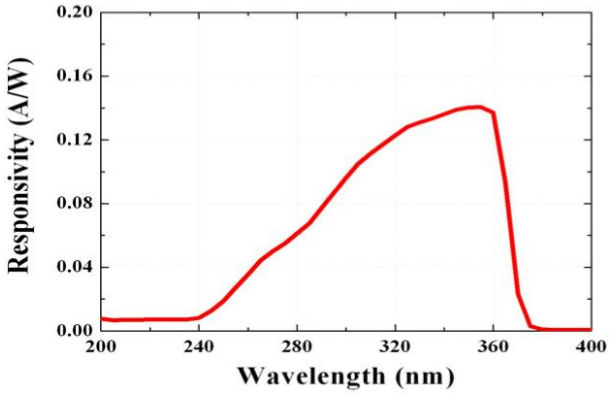
Responsivity Curve



Photocurrent along UV Power