

ROITHNER LASERTECHNIK GIDEN

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GUVA-S12SD

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

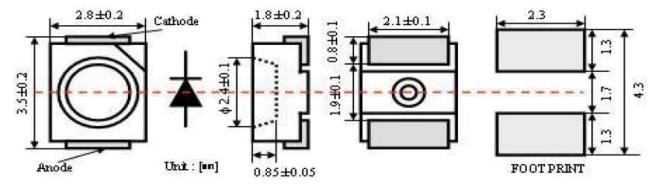
Item	Symbol	Value	Unit
Forward Current	I _F	1	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T _{op}	-30 +85	°C
Storage Temperature	T _{st}	-40 +90	°C
Soldering Temperature *	T _{sol}	260	°C

^{*} must be completed within 10 seconds

Characteristics (25°C)

Item	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Dark Current	I_{D}	$V_{R} = 0.1 \text{ V}$	-	ı	1	nA
Photo Current	I_{PD}	UVA Lamp, 1 mW/cm ²	-	113	1	nA
		1 UVI	-	26	1	nA
Temperature Coefficient	I _{TC}	UVA Lamp	-	0.08	1	% / °C
Responsivity	R	$\lambda = 300 \text{ nm}, V_R = 0 \text{ V}$	-	0.14	1	A/W
Spectral Detection Range	λ	10% of R	240	-	370	nm

Package Dimension





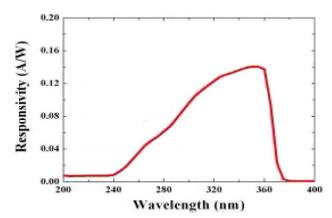
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Responsivity Curve



Photocurrent along UV Power

