

UV-A Sensor

GUVA-S10GD



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



- Applications**
- Full UV Band Monitoring
 - Pure UV-A Monitoring
 - UV Index Monitoring
 - Sterilization Lamp Monitoring

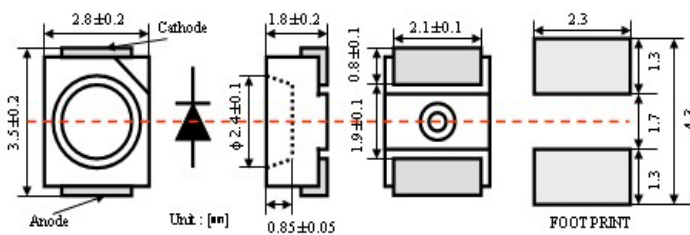
Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90		
Operating Temperature	T_{op}	-30	85		
Reverse Voltage	$V_{r, max.}$		5	V	
Forward Current	$I_{f, max.}$		1	mA	
Soldering Temperature	T_{sol}		260		within 10 sec.

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}		74		nA	UVA Lamp, $1mW/cm^2$
Temperature Coefficient	I_{tc}		0.08		%/°C	UVA Lamp
Responsivity	R		0.15		A/W	$\lambda = 350 nm, V_r = 0 V$
Spectral Detection Range	λ	200		370	nm	
Breakdown Voltage	V_{BR}		10			$I_r = 1 \mu A$

Outline Diagrams and Dimensions



Responsivity Curve

