

UV-A Sensor

GUVA-T20BD-L

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



- Applications**
- Flame Sensing
 - Pure UV-A Monitoring
 - Sterilization Lamp Monitoring

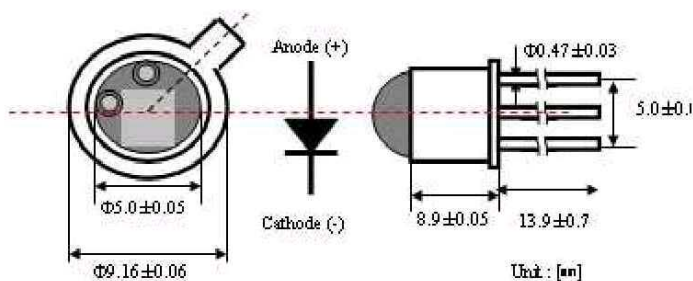
Absolute Maximum Ratings

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	
Soldering Temperature	T_{sol}		260	°C	within 10 sec.

Characteristics (at 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Dark Current	I_d			1	nA	$V_r = 1.0\text{ V}$
Photo Current	I_{ph}		2.4		μA	UVA Lamp, $1\text{ mW}/\text{cm}^2$
Temperature Coefficient	I_{tc}		0.05		%/°C	UVA Lamp
Responsivity	R		2.5		A/W	$\lambda = 350\text{ nm}$, $V_r = 0\text{ V}$
Spectral Detection Range	λ	220		370	nm	
Breakdown Voltage	V_{BR}		5			$I_r = 1\ \mu\text{A}$

Outline Diagrams and Dimensions



Responsivity Curve

