

UV-A Sensor

GUVA-L20SD



Features Gallium Nitride Based Material
 Schottky-type Photodiode
 Photovoltaic Mode Operation



Applications Pure UV-A Monitoring
 UV Index Monitoring

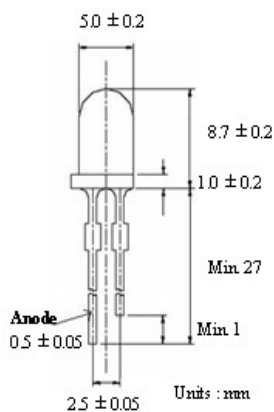
Absolute Maximum Ratings

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 (UV Lamp)	I_{ph}		480		nA	UVA Lamp, $1\text{mW}/\text{cm}^2$
Responsivity	R		2.5		A/W	$\lambda = 350$ nm, $V_r = 0$ V
Spectral Detection Range	λ	310		370	nm	
Breakdown Voltage	V_{BR}		10			$I_r = 1$ μA

Outline Diagrams and Dimensions



Responsivity Curve

