

UV Sensor Module

GUVC-T20GH

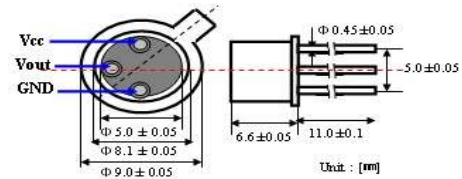


- Features**
- Single Supply Voltage Operation
 - Voltage Output
 - High Sensitivity and Good Solar Blindness
 - Small and Compact Size



- Applications**
- Pure UV-C Monitoring
 - Sterilization Lamp Monitoring

Outline Diagrams and Dimensions



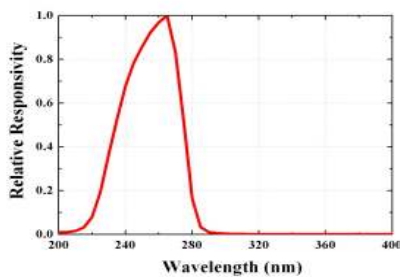
Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit	Remark
Storage Temperature	T_{st}	-40	90	$^{\circ}C$	
Operating Temperature	T_{op}	-30	85	$^{\circ}C$	
Supply Voltage	V_{cc}		5.5	V	
Soldering Temperature	T_{sol}		260	$^{\circ}C$	within 10 sec.

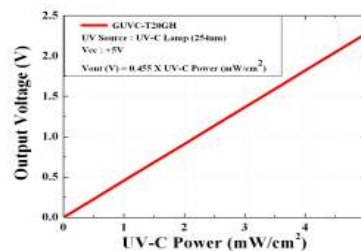
Characteristics (at 25 $^{\circ}C$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark
Supply Voltage	V_{cc}	1.8		5.5	V	DC
Supply Current	I_Q		50		μA	
Responsivity	R_p		0.6		mV/nW	at 254 nm
Spectral Detection Range	λ	220		280	nm	10% of R_p
Output Voltage	V_{out}		0.455		V	1 mW/cm 2
Offset Voltage	V_{off}		0.01		V	
Detection Power Range	P	0		11.0	mW/cm 2	$V_{cc}=5V$
Rising Time	T_r		3		ms	

Responsivity Curve



Output Voltage along UV Power



Caution ESD can damage the device hence please avoid ESD.