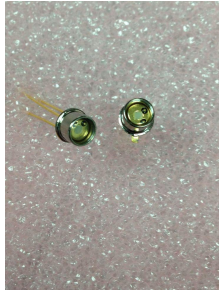




UV1.0TA-3L

Broad-band GaN-based UV photodiode



Description

Broad band GaN based UV photodiode, it is optimized for ultra-violet range 210~370nm, UVB and UVC wavelength. Can be easily selected with integral filters. It is packaged in electrically isolated and hermetically sealed TO-46 metal can with quartz window.

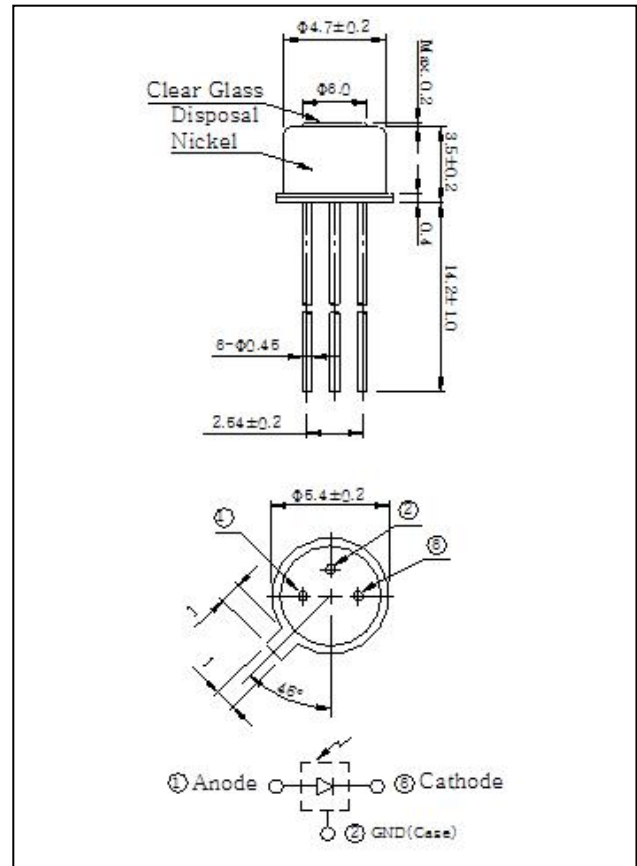
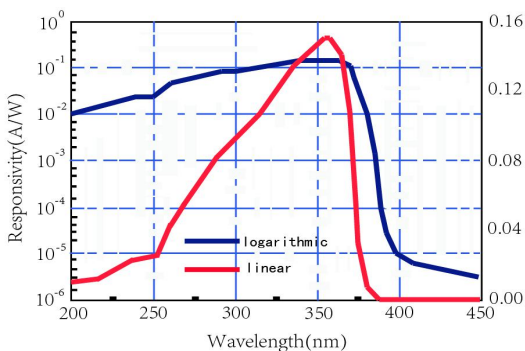
Features

- * High reliability in demanding environments
- * Operating temperature is from -40 to +80°C
- * Storage temperature is from -40 to +120°C

Applications

- * Sunlight exposure meter
- * UV power meter
- * Water purification facilities
- * flame detection

Spectral response



Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject change without notice

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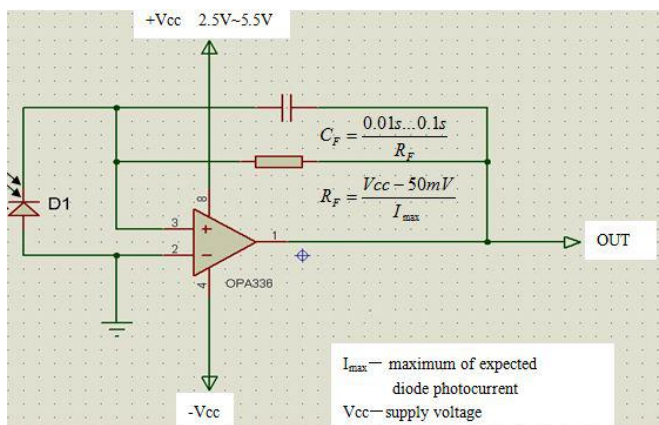
TEL:+86-21-54971821
FAX:+86-21-54971823

EMAIL:sales@otronsensor.com
[Http://www.otronsensor.com](http://www.otronsensor.com)

Specifications:

Parameters	Symbol	Value	Unit
Maximum ratings			
Operation temperature range	T_{opt}	-25-85	°C
Storage temperature range	T_{sto}	-40-85	°C
Soldering temperature (3 s)	T_{sol}	260	°C
Reverse voltage	V_{r-max}	-10	V
General characteristics (25 °C)			
Chip size	A	1	mm ²
Dark current ($V_r = -1$ V)	I_d	<1	nA
Photo current (1 mW/cm ² at 360 nm)	I_{ph}	1200	nA
Temperature coefficient	T_c	-0.1	%/°C
Capacitance	C_p	37	pF
Spectral response characteristics (25 °C)			
Wavelength of peak responsivity	λ_p	355	nm
Peak responsivity (at 355 nm)	R_{max}	0.15	A/W
Spectral response range ($R=0.1 \times R_{max}$)	-	210-375	nm
UV-visible rejection ratio ($R_{max}/R_{400\text{ nm}}$)	-	$>10^4$	-

Typical application circuit



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