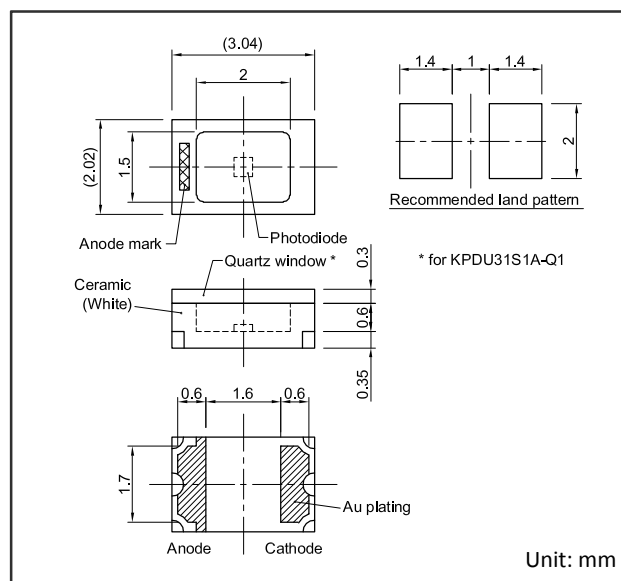


Features

- Wide sensitivity covering both UV-B and UV-C
- SMD type package
- KPDU31S1A-Q1: quartz window type
- KPDU31S1A-B1: windowless package

Applications

- UV sensors
- Spectroscopy
- UV exposure meters
- UV source monitors
- Medical uses

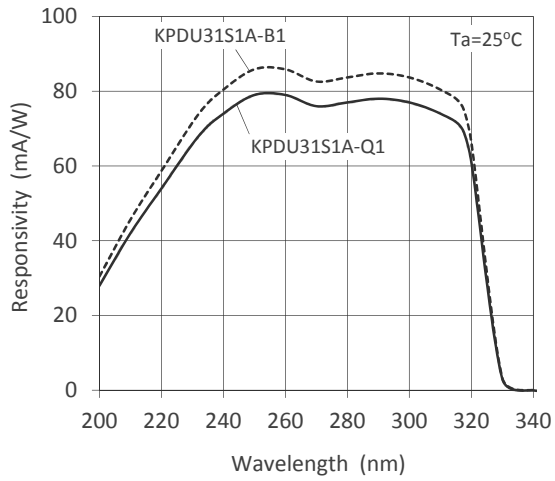
**Absolute Maximum Ratings**

Parameter	Symbol	Value	Unit	Note
Reverse voltage	V_R	1	V	
Operating temperature	T_{opr}	-40 to +80	°C	Avoid dew condensation
Storage temperature	T_{stg}	-40 to +85	°C	Avoid dew condensation
Soldering temperature	T_{sol}	260	°C	Max 5 sec.

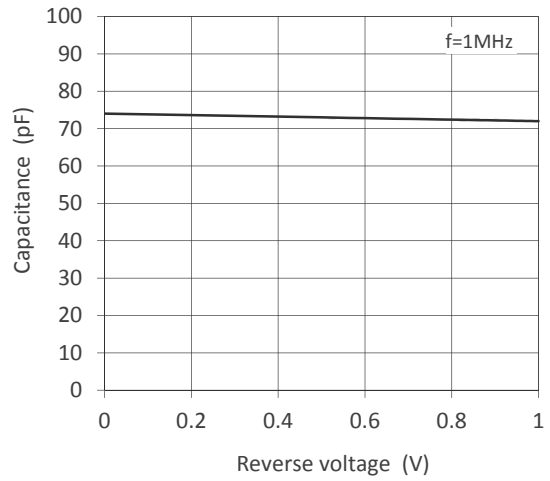
Electrical and Optical Characteristics ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Active area	S	0.07			mm^2	
Sensitive wavelength	λ	200	-	330	nm	
Responsivity	R	60	75	-	mA/W	$V_R=0\text{V}$, $\lambda=300\text{nm}$ KPDU31S1A-Q1
		60	80	-		$V_R=0\text{V}$, $\lambda=300\text{nm}$ KPDU31S1A-B1
Dark current	I_D	-	5	1000	μA	$V_R=1\text{V}$
Terminal capacitance	C_t	-	75	-	pF	$V_R=0\text{V}$, $f=1\text{MHz}$

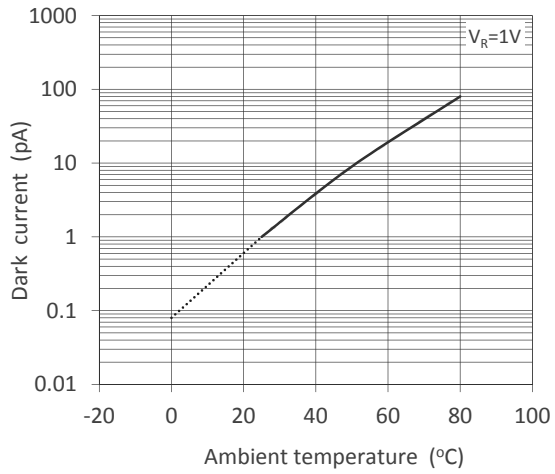
Spectral Responsivity



Capacitance - Reverse Voltage



Dark Current - Ambient Temperature



- Specifications, characteristics, data, materials, structures specified in this datasheet are subject to change without notice. Please refer to the latest specification before use of the products.
- Products listed in this datasheet comply with the RoHS Directive (EU2002/95/EC).

Opto-technologies for the Future



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