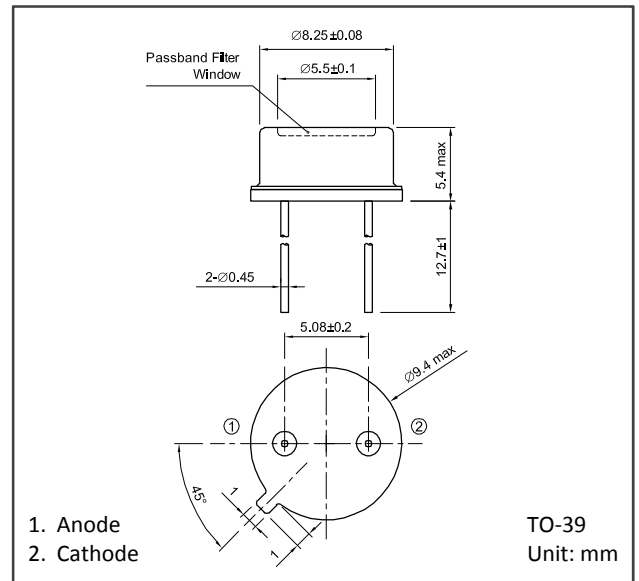


Features

- Enhanced sensitivity in UV-blue region
- 254nm passband filter attached (KPDU400F-2)
- Quartz window (KPDU400QW-2)
- Large sensing area

Applications

- UV sensors
- Spectroscopy
- Flame sensors
- Mercury lamp monitors
- UV exposure meters
- Medical uses



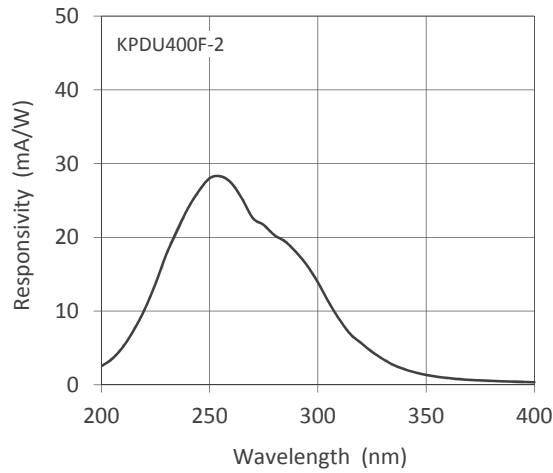
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Note
Reverse voltage	V_R	15	V	
Reverse current	I_R	1	mA	
Forward current	I_F	10	mA	
Operating temperature	T_{opr}	-20 to +65	°C	Avoid dew condensation
Storage temperature	T_{stg}	-30 to +80	°C	Avoid dew condensation
Soldering temperature	T_{sol}	260	°C	Max 5 sec.

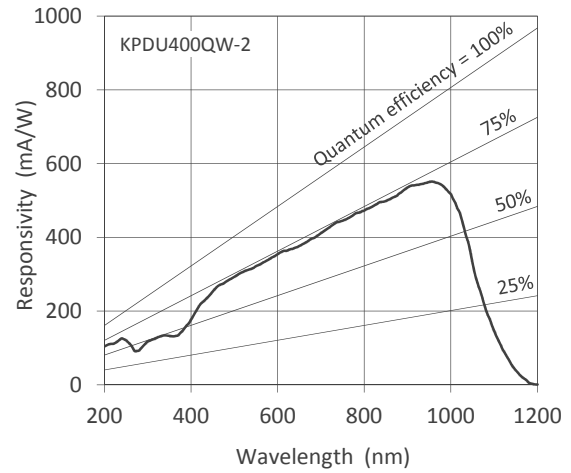
Electrical and Optical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition	
Active area	S	4 x 4			mm ²		
Sensitive wavelength	KPDU400F-2	230	254(λ_p)	295	nm	λ_p =Peak wavelength	
	KPDU400QW-2	200	950(λ_p)	1100			
Responsivity	KPDU400F-2	R	18	30	-	mA/W	$V_R=0V, \lambda=254nm$
			100	105	-		$V_R=0V, \lambda=254nm$
	110		120	-	$V_R=0V, \lambda=365nm$		
	160		185	-	$V_R=0V, \lambda=405nm$		
	210		220	-	$V_R=0V, \lambda=436nm$		
Dark current	I_D	-	0.5	5	nA	$V_R=5V$	
Terminal capacitance	C_t	-	300	500	pF	$V_R=0V, f=1MHz$	

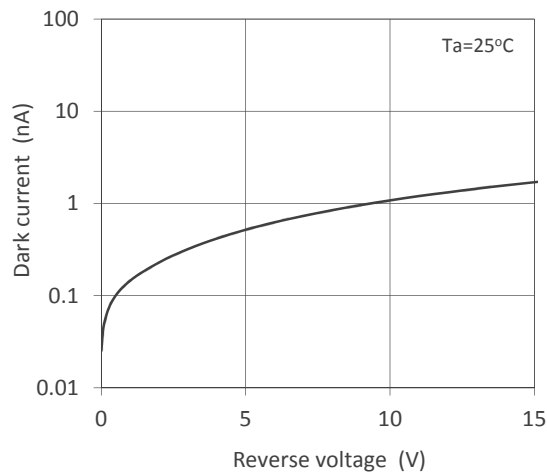
Spectral Responsivity



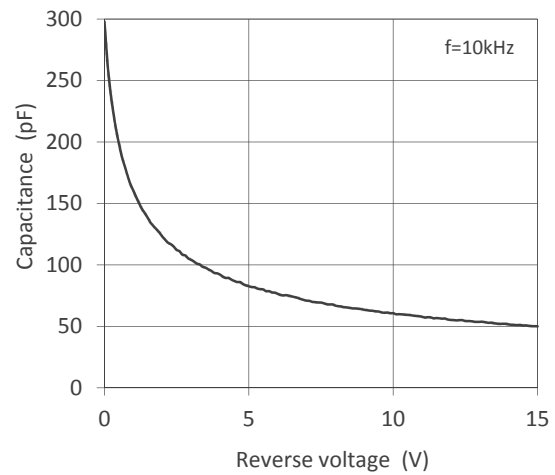
Spectral Responsivity



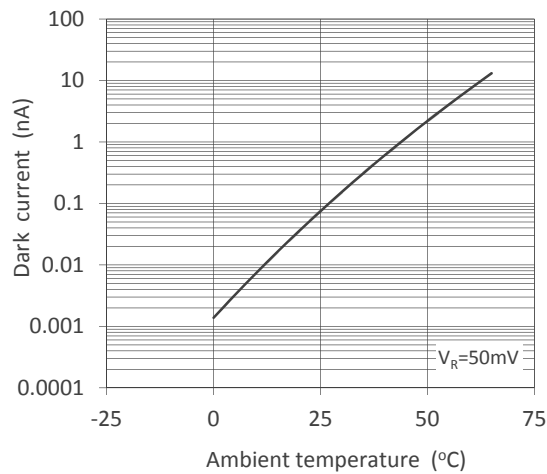
Dark Current - Reverse Voltage



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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