

■ UV Enhanced Series

Inversion Layers and Planar Diffused Silicon Photodiodes

OSI Optoelectronics offers two distinct families of UV enhanced silicon photodiodes. Inversion channel series and planar diffused series. Both families of devices are especially designed for low noise detection in the UV region of electromagnetic spectrum.

Inversion layer structure UV enhanced photodiodes exhibit 100% internal quantum efficiency and are well suited for low intensity light measurements. They have high shunt resistance, low noise and high breakdown voltages. The response uniformity across the surface and quantum efficiency improves with 5 to 10 volts applied reverse bias. In photovoltaic mode (unbiased), the capacitance is higher than diffused devices but decreases rapidly with an applied reverse bias. Photocurrent non-linearity sets in at lower photocurrents for inversion layer devices compared to the diffused ones. Below 700nm, their responsivities vary little with temperature.

Planar diffused structure (UV-D Series) UV enhanced photodiodes show significant advantages over inversion layer devices, such as lower capacitance and higher response time. These devices exhibit linearity of photocurrent up to higher light input power compared to inversion layer devices.

They have relatively lower responsivities and quantum efficiencies compared to inversion layer devices. There are two types of planar diffused UV enhanced photodiodes available: UVD and UVE. Both series have almost similar electro-optical characteristics, except in the UVE series, where the near IR responses of the devices are suppressed. This is especially desirable if blocking the near IR region of the spectrum is necessary. UVD devices peak at 970 nm and UVE devices at 720 nm (see graph). Both series may be biased for lower capacitance, faster response and wider dynamic range. Or they may be operated in the photovoltaic (unbiased) mode for applications requiring low drift with temperature variations. The UVE devices have a higher shunt resistance than their counterparts of UVD devices, but have a higher capacitance.

These detectors are ideal for coupling to an OP-AMP in the current mode configuration as shown below.

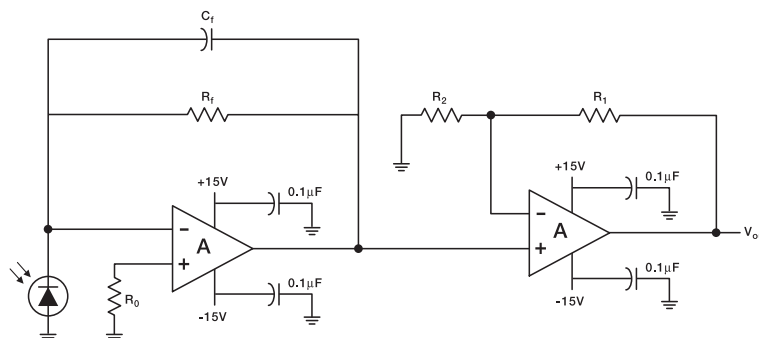


■ APPLICATIONS

- Pollution Monitoring
- Medical Instrumentation
- UV Exposure Meters
- Spectroscopy
- Water Purification
- Fluorescence

■ FEATURES

- Inversion series:
 - 100% Internal QE
- Ultra High R_{SH}
- Planar Diffused Series:
 - IR Suppressed
 - High Speed Response
 - High Stability
- Excellent UV response



■ Inversion Layer UV Enhanced Photodiodes

Typical Electro-Optical Specifications at $T_A=23^{\circ}\text{C}$

Model Number	Active Area		Responsiv-ity (A/W)		Capacitance (pF)	Shunt Resistance (MΩ)		NEP (W/√Hz)	Reverse Voltage (V)	Rise Time (μs)	Operating Current (mA)	Temp.* Range (°C)		Package Style ¶
	Area (mm²)	Dimensions (mm)	254 nm		0 V	-10 mV		0V 254 nm		0 V 254 nm 50 Ω	0 V	Operating	Storage	
			min.	typ.	max.	min.	typ.	typ.		max.	typ.			

'UV Enhanced' Series, Inversion Layer, Metal Package §

UV-001	0.8	1.0 ϕ	0.09	0.14	60	250	500	6.4 e-14	5	0.2	0.1	-20 ~ +60	-55 ~ +80	5 / TO-5							
UV-005	5.1	2.54 ϕ			300	80	200	1.0 e-13		0.9											
UV-015	15	3.05 x 3.81			800	30	100	1.4 e-13		2.0											
UV-20	20	5.08 ϕ			1000	25	50	2.0 e-13		2.0											
UV-35	35	6.60 x 5.33			1600	20	30	1.7 e-13		3.0		-10 ~ +60	-20 ~ +70	6 / TO-8							
UV-50	50	7.87 ϕ			2500	10	20	2.6 e-13		3.5											
UV-50L ‡																					
UV-100	100	11.28 ϕ			4500	5	10	4.5 e-13		5.9				11 / BNC							
UV-100L																					

'UV Enhanced' Series, Inversion Layer, Plastic Package §

FIL-UV005	5.1	2.54 ϕ	0.09	0.14	300	50	100	9.2 e-14	5	0.9	0.1	-10 ~ +60	-20 ~ +70	14 / Plastic
FIL-UV20	20	5.08 ϕ			1000	20	50	1.3 e-13		2.0				
UV-35P	35	6.60 x 5.33			1600	15	30	1.7 e-13		3.0				
FIL-UV50	50	7.87 ϕ			2500	10	20	2.1 e-13		3.5				15 / Plastic
FIL-UV100	100	11.28 ϕ			4500	5	10	2.9 e-13		5.9				

Model Number	Active Area		Responsiv-ity (A/W)		Capacitance (pF)	Shunt Resistance (GΩ)		NEP (W/√Hz)	Reverse Voltage (V)	Rise Time (μs)	Dark Current (pA)	Temp.* Range (°C)		Package Style ¶
	Area (mm²)	Dimensions (mm)	254 nm		0 V	-10 mV		0V 254 nm		0 V 254 nm 1kΩ	Vr=10mV	Operating	Storage	
			min.	typ.	max.	min.	typ.	typ.		typ.	typ.			

'7' Series, Super UV

OSD1.2-7U	1.2	1.1 sq	0.08	0.10	40	0.5	5.0	1.5 e-14	5	0.1	2	-25 ~ +70	-40 ~ +100	7 / TO-18
OSD1.2-7Q	1.2	1.1 sq	0.10	0.12	40	0.5	5.0	1.5 e-14		0.1	2			7 / TO-18
OSD5.8-7U	5.8	2.4 sq	0.08	0.10	180	0.5	3.0	2.0 e-14		0.4	3			5 / TO-5
OSD5.8-7Q	5.8	2.4 sq	0.10	0.12	180	0.5	3.0	2.0 e-14		0.4	3			5 / TO-5
OSD35-7Q	33.6	5.8 sq	0.10	0.12	1000	0.1	0.5	6.0 e-14		2.0	20			3 / TO-8
OSD35-7CO	33.6	5.8 sq	0.11	0.13	1000	0.1	0.5	6.0 e-14		2.0	20			25 / Ceramic

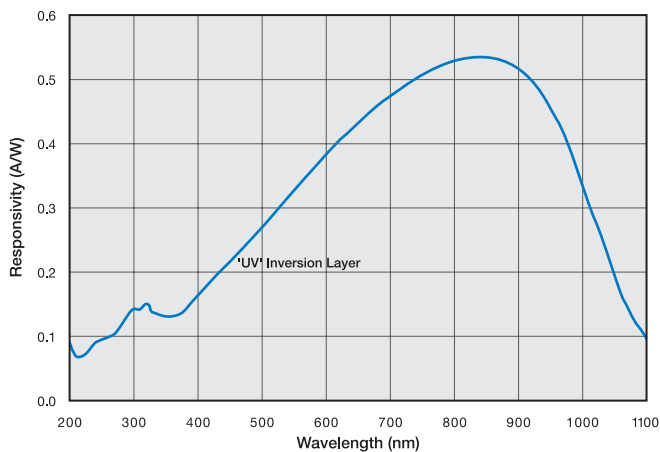
‡ The 'I' or 'L' suffix on the model number is indicative of the photodiode chip being isolated from the package by an additional pin connected to the case.

§ The photodiode chips in "FIL" series are isolated in a low profile plastic package. They have a large field of view as well as in line pins.

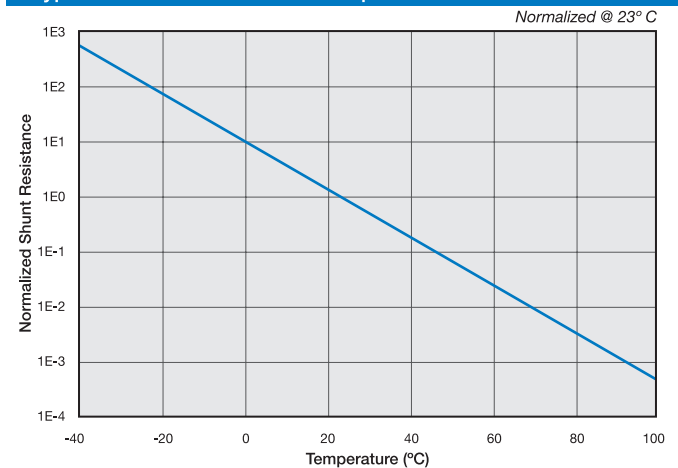
¶ For mechanical drawings refer to pages 58 thru 69.

* Non-Condensing temperature and Storage Range, Non-Condensing Environment.

■ Typical Spectral Response



■ Typical Shunt Resistance vs. Temperature



Planar Diffused UV Enhanced Photodiodes

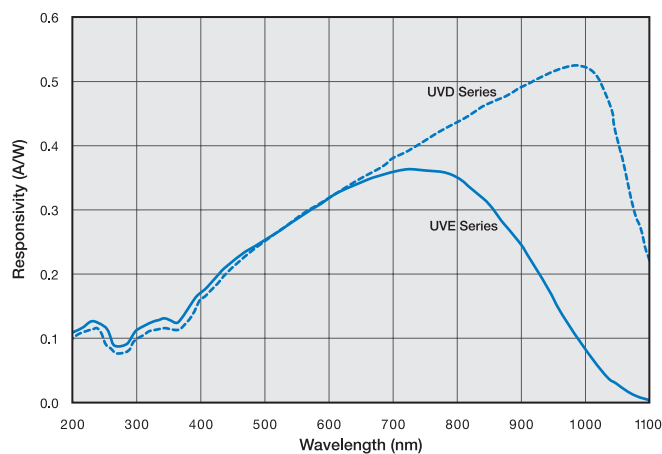
Typical Electro-Optical Specifications at $T_A=23^{\circ}\text{C}$

Model Number	Active Area		Peak Wavelength λ_p (nm)	Responsivity (A/W)			Capacitance (pF)	Shunt Resistance (G Ω)		NEP (W/ $\sqrt{\text{Hz}}$)	Reverse Voltage (V)	Rise Time (μs)	Temp.* Range ($^{\circ}\text{C}$)		Package Style ¶
	Area (mm ²)	Dimension (mm)		254 nm	633 nm	930 nm	0 V	-10 mV		0V 254 nm		0 V 254 nm 50 Ω	Operating	Storage	
				typ.	typ.	typ.	typ.	min.	typ.	typ.		max.			
'UVD' Series Planar Diffused, Metal Package															
UV-005D	5.7	2.4 sq	970	0.10	0.33	0.50	100	0.30	4	2.0 e -14	5	0.10	-20 ~ +60	-55 ~ +80	5 / TO-5
UV-013D	13	3.6 sq					225	0.20	2	2.8 e -14		0.20			5 / TO-5
UV-035D	34	5.8 sq					550	0.10	0.50	5.6 e -14		0.40			6 / TO-8
'UVD' Series Planar Diffused, Ceramic Package															
UV-005DC	5.7	2.4 sq	970	0.10	0.33	0.50	100	0.30	4	2.0 e -14	5	0.10	-20 ~ +60	-20 ~ +80	25 / Ceramic
UV-035DC	34	5.8 sq					550	0.10	0.5	5.6 e -14		0.20			
UV-100DC	100	10 sq					1750	0.04	0.20	9.1 e -14		1.00			
'UVE' Series Planar Diffused, Metal Package															
UV-005E	5.7	2.4 sq	720	0.10	0.33	0.17	200	0.50	10	1.3 e -14	5	0.15	-20 ~ +60	-55 ~ +80	5 / TO-5
UV-013E	13	3.6 sq					400	0.40	5	1.8 e -14		0.30			5 / TO-5
UV-035E	34	5.8 sq					1000	0.20	1	4.1 e -14		0.80			6 / TO-8
'UVE' Series Planar Diffused, Ceramic Package															
UV-005EC	5.7	2.4 sq	720	0.10	0.33	0.17	200	0.50	10	1.3 e -15	5	0.15	-20 ~ +60	-20 ~ +80	25 / Ceramic
UV-035EC	34	5.8 sq					1000	0.20	1	4.1 e -14		0.80			
UV-100EC	100	10 sq					2500	0.10	0.50	5.8 e -14		1.00			

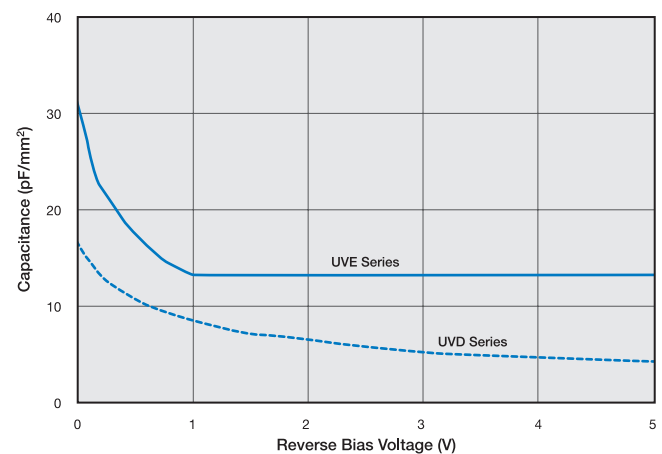
¶ For mechanical specifications please refer to pages 58 thru 69.

* Non-Condensing temperature and Storage Range, Non-Condensing Environment.

Typical Spectral Response



Typical Capacitance vs. Reverse Bias



1. Parameter Definitions:

A = Distance from top of chip to top of glass.

a = Photodiode Anode.

B = Distance from top of glass to bottom of case.

c = Photodiode Cathode

(Note: cathode is common to case in metal package products unless otherwise noted).

W = Window Diameter.

F.O.V. = Field of View (see definition below).

2. Dimensions are in inches (1 inch = 25.4 mm).

3. Pin diameters are 0.018 ± 0.002 " unless otherwise specified.

4. Tolerances (unless otherwise noted)

General: $0.XX \pm 0.01$ "

$0.XXX \pm 0.005$ "

Chip Centering: ± 0.010 "

Dimension 'A': ± 0.015 "

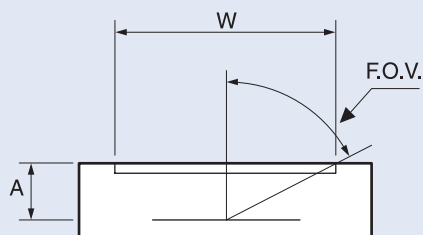
5. Windows

All '**UV**' Enhanced products are provided with QUARTZ glass windows, 0.027 ± 0.002 " thick.

All '**XUV**' products are provided with removable windows.

All '**DLS**' PSD products are provided with A/R coated glass windows.

All '**FIL**' photoconductive and photovoltaic products are epoxy filled instead of glass windows.



$$F.O.V. = \tan^{-1} \left(\frac{W}{2A} \right)$$



For Further Assistance
Please Call One of Our Experienced
Sales and Applications Engineers

310-978-0516



- Or -
On the Internet at

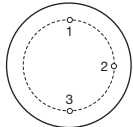
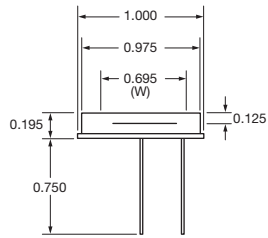
www.osioptoelectronics.com

Mechanical Specifications

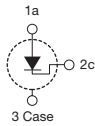
All units in inches. Pinouts are bottom view.

1 TO-18		2 TO-5		3 TO-8																																			
Pin Circle Dia.=0.100 <table><tr><td>P/N</td><td>A</td><td>B</td><td>W</td></tr><tr><td>PIN-020A</td><td>0.075</td><td>0.200</td><td>0.155</td></tr><tr><td>PIN-040A</td><td>0.075</td><td>0.200</td><td>0.155</td></tr></table>		P/N	A	B	W	PIN-020A	0.075	0.200	0.155	PIN-040A	0.075	0.200	0.155	Pin Circle Dia.=0.200 <table><tr><td>P/N</td><td>A</td><td>B</td><td>W</td></tr><tr><td>All Others</td><td>0.094</td><td>0.180</td><td>0.240</td></tr><tr><td>CD-25T</td><td>0.050</td><td>0.130</td><td>0.23</td></tr></table>		P/N	A	B	W	All Others	0.094	0.180	0.240	CD-25T	0.050	0.130	0.23	Pin Circle Dia.=0.295 <table><tr><td>P/N</td><td>A</td></tr><tr><td>PIN-6DI/6DPI</td><td>0.115</td></tr><tr><td>PIN-44DI/44DPI</td><td>0.125</td></tr><tr><td>OSD35-0</td><td>0.130</td></tr><tr><td>OSD35-7Q</td><td>0.130 Quartz Window</td></tr></table>		P/N	A	PIN-6DI/6DPI	0.115	PIN-44DI/44DPI	0.125	OSD35-0	0.130	OSD35-7Q	0.130 Quartz Window
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4 TO-18		5 TO-5		6 TO-8																																			
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7 TO-18		8 TO-18		9 TO-18																																			
Pin Circle Dia.=0.100 <table><tr><td>P/N</td><td>A</td><td>B</td></tr><tr><td>PIN-3CD / 3CDP</td><td>0.087</td><td>0.146</td></tr><tr><td>BPX-65</td><td>0.075</td><td>0.200</td></tr><tr><td>OSD-Prefix Devices</td><td>0.080</td><td>0.200</td></tr></table> Quartz Window: OSD1.2-7Q UV Transmissive Window: OSD1.2-7U		P/N	A	B	PIN-3CD / 3CDP	0.087	0.146	BPX-65	0.075	0.200	OSD-Prefix Devices	0.080	0.200	Pin Circle Dia.=0.100		Pin Circle Dia.=0.100																							
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10 Low Profile

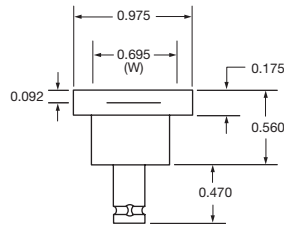


Pin Circle Dia.=0.73



Products:
PIN-10DI
PIN-10DPI
PIN-10DPI/SB
UV-50L
UV-100L

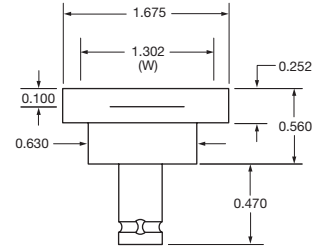
11 BNC



Outer Contact — Anode	PIN-10D, PIN-10DP, PIN-10DP/SB
Outer Contact — Cathode	UV-50, UV-100

Products:
PIN-10D
PIN-10DP
PIN-10DP/SB
UV-50
UV-100

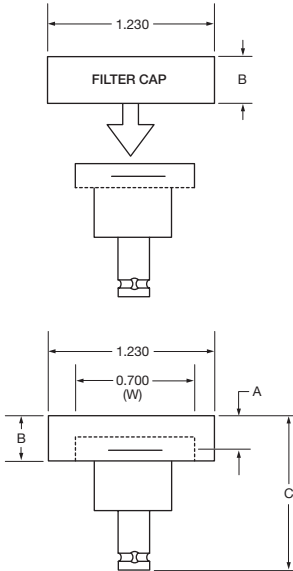
12 BNC



Outer Contact — Anode

Products:
PIN-25D
PIN-25DP

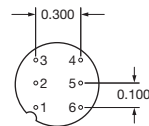
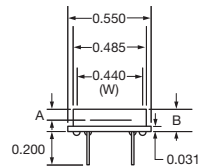
13 Special BNC



Dimensions			
P/N	A	B	C
PIN-10DF	0.217	0.330	1.020
PIN-10AP	0.386	0.550	1.415

Products:
PIN-10AP
PIN-10DF

14 Special Plastic



Dimensions

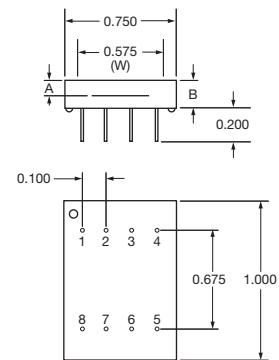
P/N	A	B
FIL-5C FIL-20C FIL-UV20 FIL-C4DG	0.060	0.130
FIL-UV005 FIL-UV20 FIL-C4DG	0.087	0.152

Pinouts

P/N	1	2	3	4	5	6
FIL-5C FIL-20C FIL-UV005	a	-	c	a	-	c
FIL-UV20	c	-	a	c	-	a
FIL-C4DG	c	a	c	c	a	c

Products:
FIL-5C
FIL-20C
FIL-UV20
FIL-C4DG

15 Special Plastic



Dimensions

P/N	A	B
FIL-44C FIL-100C FIL-UV50 FIL-UV100 FIL-C10DG	0.052	0.130
FIL-UV50 FIL-UV100	0.090	0.155
FIL-C10DG	0.082	0.155

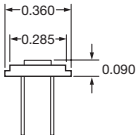
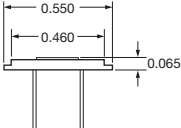
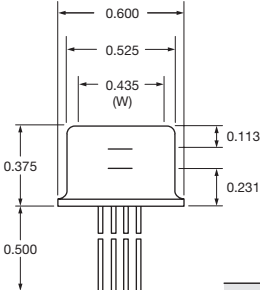
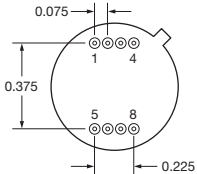
Pinouts

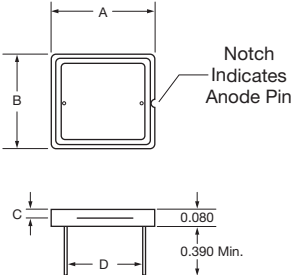
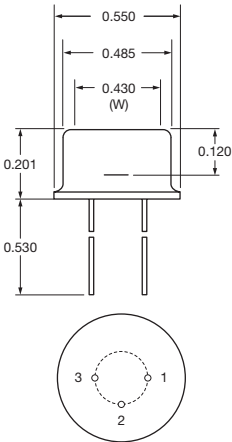
P/N	1	2	3	4	5	6	7	8
FIL-44C FIL-100C	a	-	-	c	a	-	-	c
FIL-UV50 FIL-UV100	c	-	-	a	c	-	-	a
FIL-C10DG	c	a	a	c	c	a	a	c

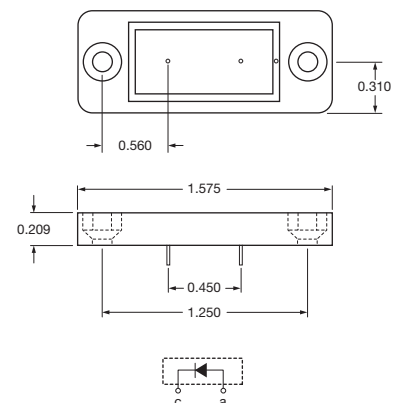
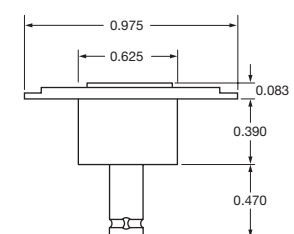
Products:
FIL-44C
FIL-100C
FIL-UV50
FIL-UV100
FIL-C10DG

Mechanical Specifications

All units in inches. Pinouts are bottom view.

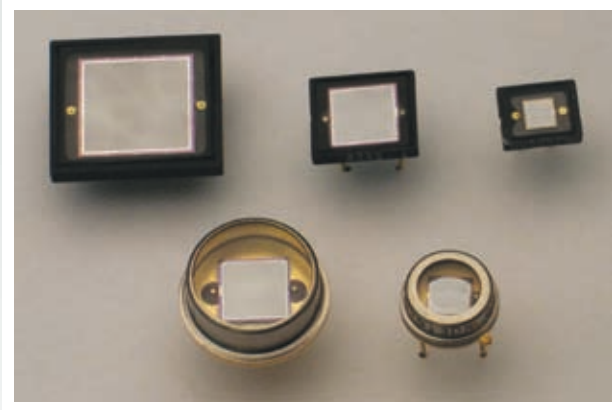
22 TO-5		23 TO-8		24 TO-8																			
Products:		Products:		Products:																			
XUV-005		XUV-020 XUV-035		PIN-DSIn-TEC																			
																							
Pin Circle Dia.=0.200		Pin Circle Dia.=0.295		<table border="1"><thead><tr><th colspan="2">Pinout</th></tr></thead><tbody><tr><td>1</td><td>TEC (-)</td></tr><tr><td>2</td><td>Thermistor</td></tr><tr><td>3</td><td>Thermistor</td></tr><tr><td>4</td><td>TEC (+)</td></tr><tr><td>5</td><td>Bottom InGaAs, Cathode</td></tr><tr><td>6</td><td>Bottom InGaAs, Anode</td></tr><tr><td>7</td><td>Top Silicon, Anode</td></tr><tr><td>8</td><td>Top Silicon, Cathode</td></tr></tbody></table>		Pinout		1	TEC (-)	2	Thermistor	3	Thermistor	4	TEC (+)	5	Bottom InGaAs, Cathode	6	Bottom InGaAs, Anode	7	Top Silicon, Anode	8	Top Silicon, Cathode
Pinout																							
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2	Thermistor																						
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8	Top Silicon, Cathode																						
																							

25 Special Ceramic / Plastic		26 TO-8																																																																																
Products:		Products:																																																																																
<table><thead><tr><th rowspan="2">P/N</th><th colspan="4">Dimensions</th></tr><tr><th>A</th><th>B</th><th>C</th><th>D</th></tr></thead><tbody><tr><td>UV-005EC</td><td>0.400</td><td>0.350</td><td>0.030</td><td>0.280</td></tr><tr><td>UV-035EC</td><td>0.400</td><td>0.350</td><td>0.030</td><td>0.290</td></tr><tr><td>UV-100EC</td><td>0.650</td><td>0.590</td><td>0.048</td><td>0.500</td></tr><tr><td>UV-005DC</td><td>0.400</td><td>0.350</td><td>0.030</td><td>0.280</td></tr><tr><td>UV-035DC</td><td>0.400</td><td>0.350</td><td>0.030</td><td>0.290</td></tr><tr><td>UV-100DC</td><td>0.650</td><td>0.590</td><td>0.053</td><td>0.500</td></tr><tr><td>XUV-50C</td><td>0.650</td><td>0.590</td><td>0.027</td><td>0.490</td></tr><tr><td>XUV-100C</td><td>0.650</td><td>0.590</td><td>0.027</td><td>0.490</td></tr><tr><td>RD-100</td><td>0.650</td><td>0.590</td><td>0.027</td><td>0.490</td></tr><tr><td>RD-100A</td><td>0.650</td><td>0.590</td><td>0.027</td><td>0.490</td></tr><tr><td>UV-35P</td><td>0.390</td><td>0.345</td><td>0.050</td><td>0.275</td></tr><tr><td>OSD35-7CO</td><td>0.390</td><td>0.350</td><td>---</td><td>0.290</td></tr><tr><td>OSD35-LR-A</td><td>0.390</td><td>0.350</td><td>---</td><td>0.290</td></tr><tr><td>OSD35-LR-D</td><td>0.390</td><td>0.350</td><td>---</td><td>0.290</td></tr></tbody></table> Note: OSD35-prefix packages come with 0.31" (min.) leads		P/N	Dimensions				A	B	C	D	UV-005EC	0.400	0.350	0.030	0.280	UV-035EC	0.400	0.350	0.030	0.290	UV-100EC	0.650	0.590	0.048	0.500	UV-005DC	0.400	0.350	0.030	0.280	UV-035DC	0.400	0.350	0.030	0.290	UV-100DC	0.650	0.590	0.053	0.500	XUV-50C	0.650	0.590	0.027	0.490	XUV-100C	0.650	0.590	0.027	0.490	RD-100	0.650	0.590	0.027	0.490	RD-100A	0.650	0.590	0.027	0.490	UV-35P	0.390	0.345	0.050	0.275	OSD35-7CO	0.390	0.350	---	0.290	OSD35-LR-A	0.390	0.350	---	0.290	OSD35-LR-D	0.390	0.350	---	0.290	 Pin Circle Dia.=0.295 	
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27 Special Plastic	Products:	28 BNC	Products:
PIN-220D PIN-220DP PIN-220DP/SB  Pin Diameter=0.040		XUV-100  BNC Connector Outer Contact = Cathode	

UV-DQ SERIES

new 190 to 1100 nm Spectral Range



OSI optoelectronics introduces new family of Planar Diffused UV Enhanced Photodiode: the UV-DQ and UV-DQC Series. The new Silicon is processed for enhanced responsivity over 200-400nm and sensitivity down to 190nm. The DK series offer hermetic package alternative at a lower cost and is sensitive down to 320nm.

These detectors can be reverse biased for lower capacitance, faster response, and wider dynamic range applications. They are ideal for UV Spectrophotometer, Analytical Instruments, and Medical Instrumentation.

FEATURES

- Excellent UV Sensitivity
- Low Capacitance
- High Shunt Resistance

APPLICATIONS

- Spectrophotometer
- Analytical Instruments
- Medical Instrument



Typical Electro-Optical Specifications at $T_A = 23^\circ \text{C}$

Model Number	Active Area		Peak Wavelength (nm)	Responsivity (A/W)			Capacitance (pF)	Shunt Resistance (GOhm)		NEP (W/√Hz)	Reverse Voltage (V)	Rise Time (us)	Temp. Range (°C)		Package Style
	Area (mm²)	Dimension (mm)		200 nm	633 nm	980 nm	0V	-10mV	0V 200nm	0V 1kOhm		Operating	Storage		
				typ.	typ.	typ.	typ.	typ.	min.	typ.		typ.	max	typ.	
Metal Package, Quartz Window															
UV-005DQ	5.7	2.4 x 2.4	980	0.12	0.33	0.5	65	0.3	1	3.6 E-14	5	0.2	-20 ~ +60	-55 ~ +80	2 / TO-5
UV-013DQ	13	3.6 x 3.6					150	0.2	0.8	4.1 E-14		0.5			2 / TO-5
UV-035DQ	34	5.8 x 5.8					380	0.1	0.4	5.8 E-14		1			3 / TO-8
UV-100DQ	100	10 x 10					1100	0.04	0.2	8.2 E-14		3			10 / BNC
Ceramic Package, Quartz Window															
UV-005DQC	5.7	2.4 x 2.4	980	0.12	0.33	0.5	65	0.3	1	3.6 E-14	5	0.2	-20 ~ +60	-20 ~ +80	4 / Ceramic
UV-035DQC	34	5.8 x 5.8					380	0.1	0.4	5.8 E-14		1			
UV-100DQC	100	10 x 10					1100	0.04	0.2	8.2 E-14		3			
Metal Package, Borosilicate Window¶															
UV-005DK	5.7	2.4 x 2.4	980	--	0.33	0.5	65	0.3	1	3.6 E-14*	5	0.2	-40 ~ +100	-55 ~ +125	2 / TO-5
UV-013DK	13	3.6 x 3.6					150	0.2	0.8	4.1 E-14*		0.5			2 / TO-5
UV-035DK	34	5.8 x 5.8					380	0.1	0.4	5.8 E-14*		1			3 / TO-8
UV-100DK	100	10 x 10					1100	0.04	0.2	8.2 E-14*		3			10 / BNC

*) NEP is calculated using typical responsivity 0.12 A/W at 320nm

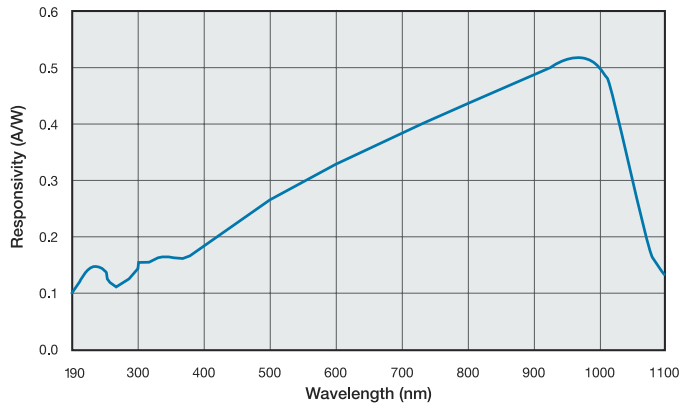
¶) Sensitivity range: 320-1100 nm

No responsibility is assumed for inaccuracies or omission. OSI Optoelectronics Inc. reserves the right to change products and specifications.

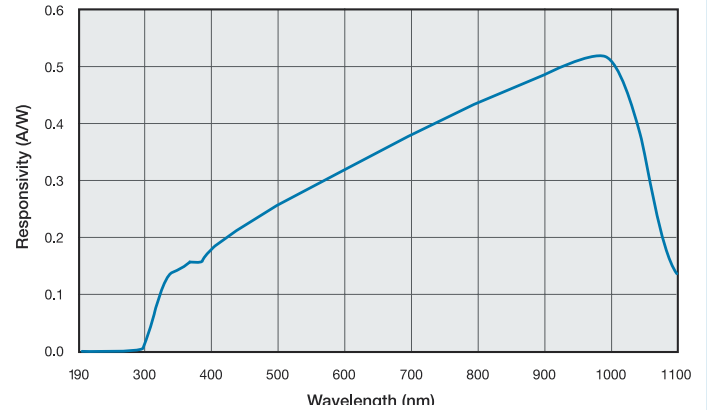
UV-DQ SERIES

190 to 1100 nm Spectral Range

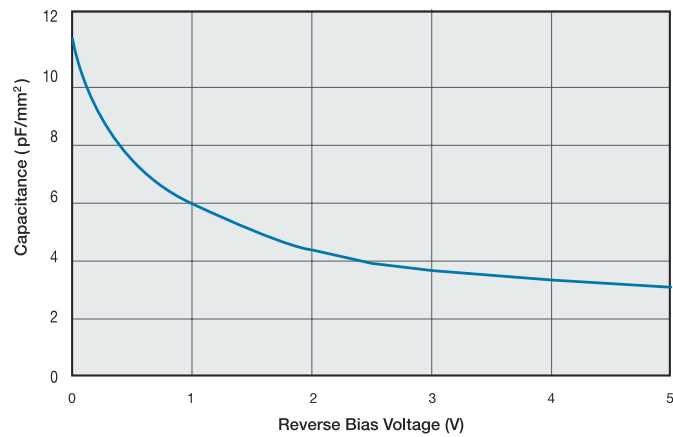
■ Typ. Responsivity with Quartz Window ($T_A = 25^\circ\text{C}$)



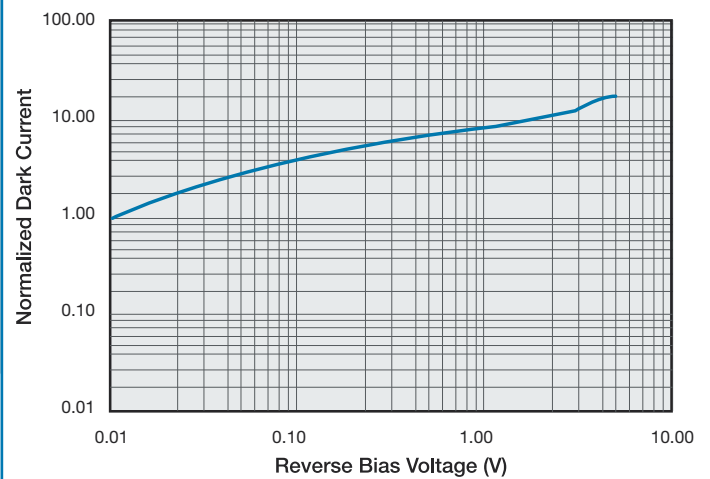
■ Typ. Responsivity with Borosilicate Window ($T_A = 25^\circ\text{C}$)



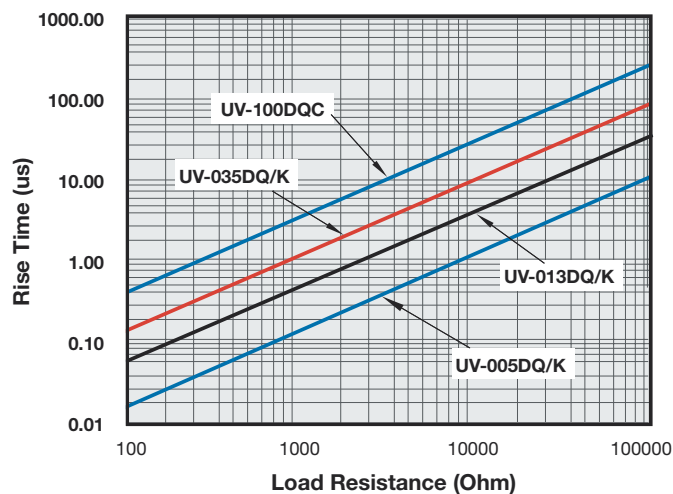
■ Typ. Capacitance vs. Reverse Bias ($T_A = 25^\circ\text{C}$)



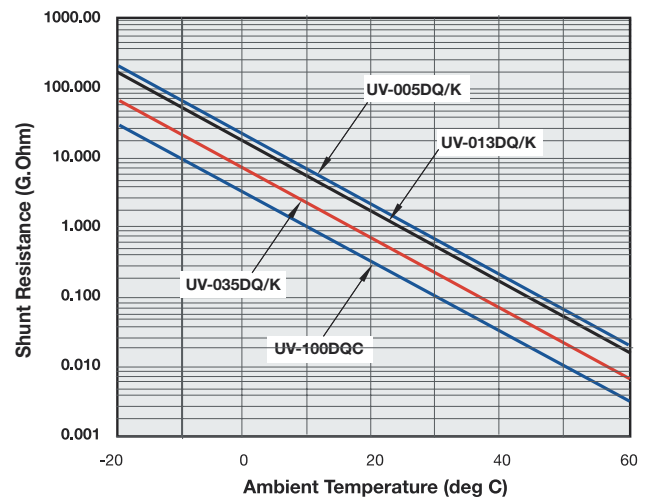
■ Typ. Dark Current vs. Reverse Bias ($T_A = 25^\circ\text{C}$, Normalized at -0.01V)



■ Typ. Rise Time vs. Load Resistance ($T_A = 25^\circ\text{C}$, $V_R = 0\text{V}$)



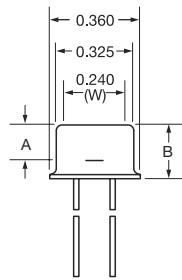
■ Typ. Shunt Resistance vs. Ambient Temperature



MECHANICAL SPECIFICATIONS

All units in inches. Pinouts are bottom view.

1 TO-5



Products:

UV-001
UV-005
UV-015

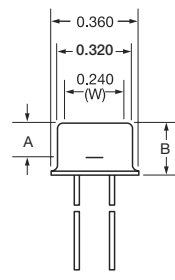


c: cathode and case

Pin Circle Dia.=0.200

Model #	A	B
UV-XXX	0.102	0.180

2 TO-5



Products:

UV-005DQ/K
UV-013DQ/K

UV-005EQ/K
UV-013EQ/K

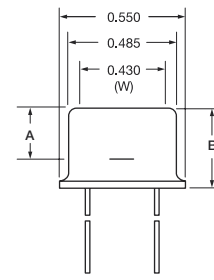


c: cathode and case

Pin Circle Dia.=0.200

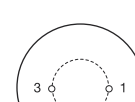
Model #	A	B
UV-xxxDQ/K	0.065	0.138
UV-xxxEQ/K	0.055	0.138

3 TO-8



Products:

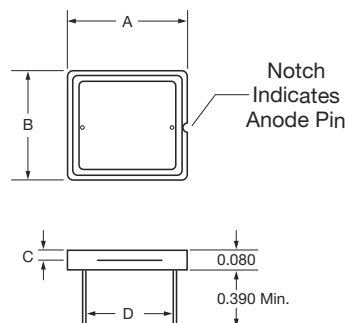
UV-035DQ/K
UV-035EQ/K



Pin Circle Dia.=0.295

Model #	A	B
UV-035DQ/K	0.130	0.195
UV-035EQ/K	0.120	0.195

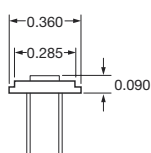
4 Ceramic



Dimensions

P/N	A	B	C	D
UV-005EQC	0.300	0.236	0.024	0.177
UV-035EQC	0.400	0.350	0.028	0.290
UV-100EQC	0.650	0.590	0.028	0.490
UV-005DQC	0.300	0.236	0.035	0.177
UV-035DQC	0.400	0.350	0.039	0.290
UV-100DQC	0.650	0.590	0.039	0.490
XUV-50C	0.650	0.590	0.027	0.490
XUV-100C	0.650	0.590	0.027	0.490

5 TO-5



Products:

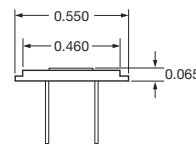
XUV-005



Pin Circle Dia.=0.200

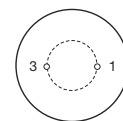


6 TO-8



Products:

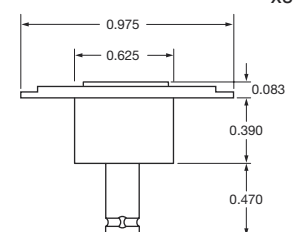
XUV-020
XUV-035



Pin Circle Dia.=0.295



7 BNC



Products:

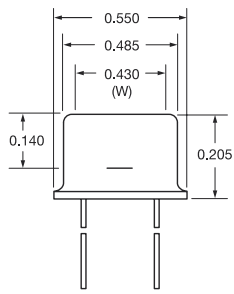
XUV-100

BNC Connector
Outer Contact = Cathode

MECHANICAL SPECIFICATIONS

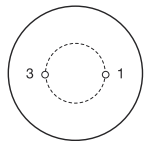
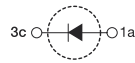
All units in inches. Pinouts are bottom view.

8 TO-8



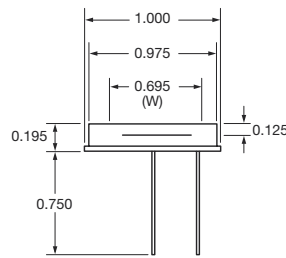
Products:
UV-020
UV-035

c: cathode and case

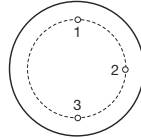


Pin Circle Dia.=0.295

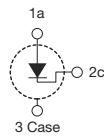
9 Low Profile



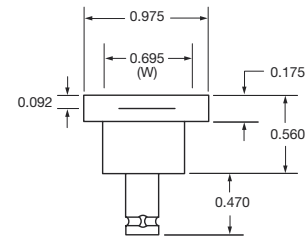
Products:
UV-50L
UV-100L



Pin Circle Dia.=0.73



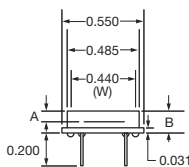
10 BNC



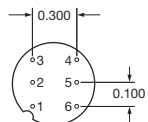
Products:
UV-100EQ/K
UV-100DQ/K
UV-50
UV-100

Outer Contact — Anode	UV-100EQ/K, UV-100DQ/K
Outer Contact — Cathode	UV-50, UV-100

11 Special Plastic



Products:
FIL-UV005
FIL-UV20



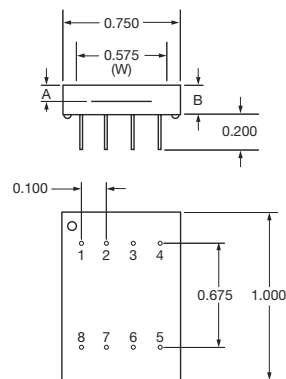
Dimensions

P/N	A	B
FIL-UV005 FIL-UV20	0.087	0.152

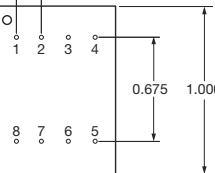
Pinouts

P/N	1	2	3	4	5	6
FIL-UV005	a	-	c	a	-	c
FIL-UV20	c	-	a	c	-	a

12 Special Plastic



Products:
FIL-UV50
FIL-UV100



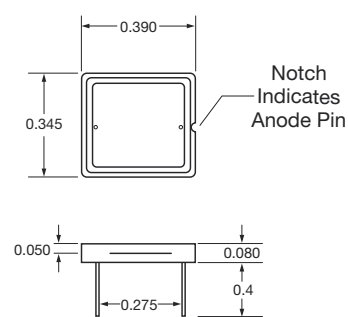
Dimensions

P/N	A	B
FIL-UV50 FIL-UV100	0.090	0.155

Pinouts

P/N	1	2	3	4	5	6	7	8
FIL-UV50 FIL-UV100	c	-	-	a	c	-	-	a

13 Special Plastic



Products:
UV-35P

Notch
Indicates
Anode Pin

