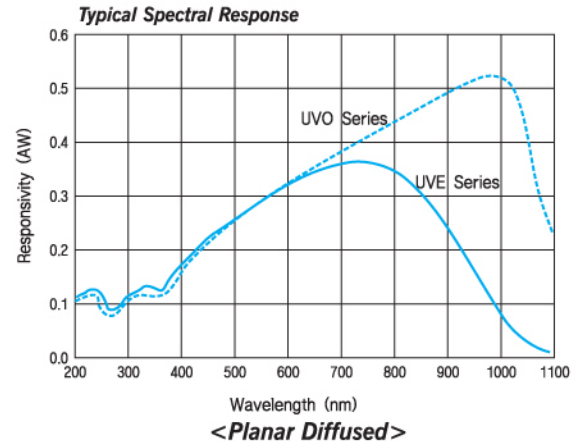
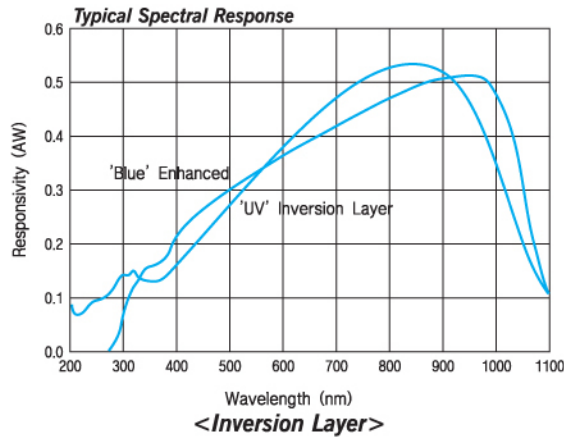
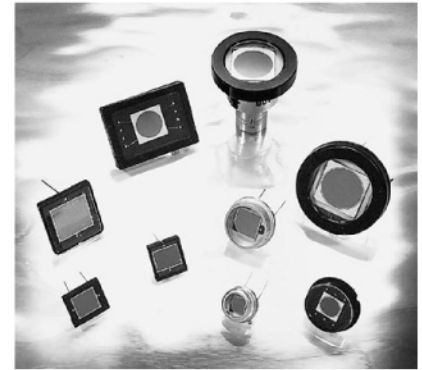


### Features

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

### Applications

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



## Inversion Layer UV Enhanced Photodiodes

Model Number	Active Area		Responsivity (A/W)		Capacitance (pF)	Shunt Resistance ( $M\Omega$ )		NEP ( $W/\sqrt{Hz}$ )	Reverse Voltage (V)	Rise Time ( $\mu s$ )	Operating Current (mA)	Temp.* Range ( $^{\circ}C$ )		Package Style
	Area ( $mm^2$ )	Dimensions (mm)	254 nm		0 V	-10mV		0V 254 nm		0 V		Operating	Storage	
			min.	typ.	max.	min.	typ.	typ.		max.				

### UV Enhanced Series, Inversion Layer, Metal Package<sup>(2)</sup>

UV-001	0.8	1.0 $\emptyset$	0.09	0.14	60	250	500	6.4e-14	5	0.2	0.1	-20 ~ +60	-55 ~ +80	TO-5
UV-005	5.1	2.54 $\emptyset$			300	80	200	1.0e-13		0.9				
UV-015	15	3.05 x 3.81			800	30	100	1.4e-13		2.0				
UV-20	20	5.08 $\emptyset$			1000	25	50	2.0e-13		2.0				TO-8
UV-35	35	6.60 x 5.33			1600	20	30	1.7e-13		3.0				
UV-50	50	7.87 $\emptyset$			2500	10	20	2.6e-13		3.5				
UV-50L <sup>(1)</sup>	100	11.28 $\emptyset$			4500	5	10	4.5e-13		5.9				-10 ~ +60
UV-100			Lo-prof											
UV-100L			BNC											
										Lo-prof				

### UV Enhanced Series, Inversion Layer, Plastic Package<sup>(2)</sup>

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

<sup>(1)</sup> 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.

<sup>(2)</sup> 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.

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

Inversion Layer UV Enhanced Photodiodes

Model Number	Active Area		Responsivity (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 (mm <sup>2</sup> )	Dimensions (mm)	254 nm		0 V	-10mV		0V 254 nm		0 V 254 nm 1kΩ	Vr=10m V	Operating	Storage	
			min.	typ.	max.	min.	typ.	typ.						

'7' Series, Super UV

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

Planar Diffused UV Enhanced Photodiodes

Model Number	Active Area		Peak Wavelength λp (nm)	Responsivity (A/W)			Capacitance (pF)	Shunt Resistance (GΩ)		NEP (W/√Hz)	Reverse Voltage (V)	Rise Time (μs)	Temp.* Range (°C)		Package Style
	Area (mm <sup>2</sup> )	Dimensions (mm)		254 nm	633 nm	930 nm	0 V	-10mV		0V 254 nm		0 V 254 nm 50 Ω	Operating	Storage	
				typ.	typ.	typ.	typ.	min.	typ.	typ.					

'UVD' Series Planar Diffused, Metal Package

UV-005D	5.7	2.4 sq	970	0.10	0.33	0.50	100	0.30	4	2.0e-14	5	0.10	+60	+80	TO-5
UV-013D	13	3.6 sq					225	0.20	2	2.8e-14		0.20			
UV-035D	34	5.8 sq					550	0.10	0.50	5.6e-14		0.40			

'UVD' Series Planar Diffused, Ceramic Package

UV-005DC	5.7	2.4 sq	970	0.10	0.33	0.50	100	0.30	4	2.0e-14	5	0.10	+60	+80	Ceramic
UV-035DC	34	5.8 sq					550	0.10	0.5	5.6e-14		0.20			
UV-100DC	100	10 sq					1750	0.04	0.20	9.1e-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	1.3e-14	5	0.15	+60	+80	TO-5
UV-013E	13	3.6 sq					400	0.40	5	1.8e-14		0.30			
UV-035E	34	5.8 sq					1000	0.20	1	4.1e-14		0.80			

'UVE' Series Planar Diffused, Ceramic Package

UV-005EC	5.7	2.4 sq	720	0.10	0.33	0.17	200	0.50	10	1.3e-15	5	0.15	+60	+80	Ceramic
UV-035EC	34	5.8 sq					1000	0.20	1	4.1e-14		0.80			
UV-100EC	100	10 sq					2500	0.10	0.50	5.8e-14		1.00			

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