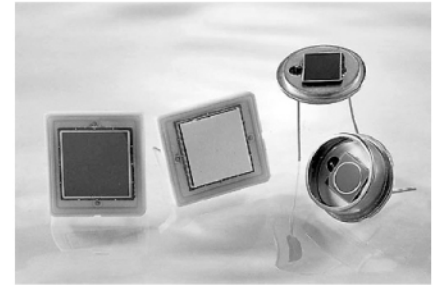
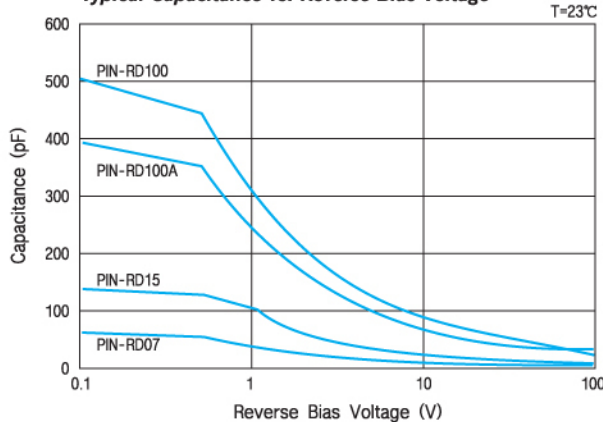


### Features

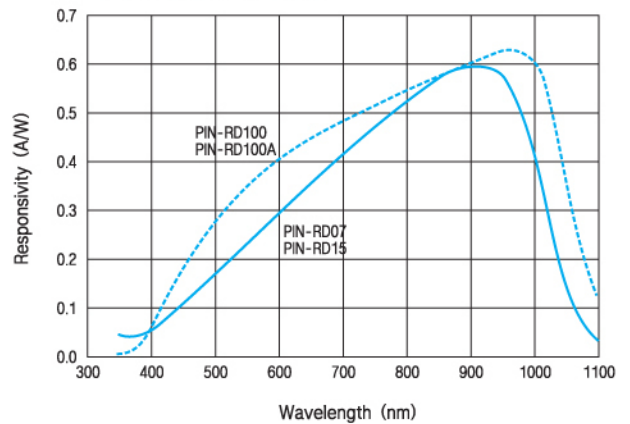
- (Large Active Area High Speed Detectors)
- (Large Active Area Radiation Detectors)
- Large Active Area
- Fully Depleteable
- Fast Response
- Ultra Low Dark Current
- Low Capacitance
- Large Active Area
- Scintillator Mountable
- Fully Depleteable
- Ultra Low Dark Current
- Low Capacitance
- High Breakdown Voltage



Typical Capacitance vs. Reverse Bias Voltage



Typical Spectral Response



Model Number	Active Area		Peak Responsivity Wavelength (nm)	Responsivity (A/W)	Depletion Voltage (V)	Dark Current (nA)		Capacitance (pF)		Rise Time (ns)	NEP (W/√Hz)	Reverse Voltage (V)	Temp.* Range (°C)		Package Style
	Area (mm <sup>2</sup> )	Dimensions (mm)		900 nm		-100V		-100 V		900nm -100 V 50Ω	900 nm -100V	10 μA	Operating	Storage	
				typ.		typ.	typ.	max.	typ.	max.	typ.	typ.			

### Large Active Area, High Speed

PIN-RD07	7.1	3.00 Ø	900	0.55	48	0.2	5.0	8.0	9.0	1.5	1.2e-14	135	-40	+100	TO-8
PIN-RD15	14.9	4.35 Ø		0.58	55	1.0	30	14	16	3.0	2.5e-14	140	-20	+60	
PIN-RD100	100	10sq	950	0.60	75	2 <sup>(1)</sup>	10 <sup>(1)</sup>	50 <sup>(1)</sup>	60 <sup>(1)</sup>	-	3.2e-14	120	-20	+60	Ceramic
PIN-RD100A	100	10sq			35	2	10	40	45	-	3.4e-14	70	-20	+80	

Model Number	Active Area		Peak Responsivity Wavelength (nm)	Responsivity 900nm	Capacitance (pF)	Shunt Resistance (GΩ)		NEP (W/√Hz)	Rise Time (ns)	Temp.* Range (°C)		Package Style	
	Area (mm <sup>2</sup> )	Dimensions (mm)		A/W		0 V	-10V		900 nm	0V 632nm 50Ω	Operating		Storage
				typ.		typ.	min.	typ.	typ.	typ.			

### OSD35-LR Series

OSD35-LR-A	34.2	5.8x5.9	830	0.54	1300	2	3	5.6e-15	-	-25	+75	Ceramic
OSD35-LR-D	34.2	5.8x5.9	830	0.54	1300	0.1	0.3	1.8e-14	-	-45	+100	

OSD-35-LR' s ceramic packages come without window, instead the optically clear epoxy is used.

<sup>(1)</sup> Measured at Vbias = -50V

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