

UV/Blue Enhanced Photodiodes

Series 2



Special characteristics

- long-term stability
- high shunt resistance and high sensitivity
- UV/ Blue enhanced

Application
Optimized
Solutions

General ratings

Type No.		Order number	Active area		Dimensional outline	Absolute maximum ratings	
Chip	Package		Size (mm)	Area (mm ²)		Operating temperatur	Storage temperatur
PC1-2	TO52	500153	∅ 1.13	1	UV clear glass	-40 ... +100 °C	-55 ... +125 °C
PC2-2	TO5	500044	∅ 1.60	2			
PC5 -2	TO5	500046	∅ 2.52	5			
PC10-2	TO5	500041	∅ 3.57	10			
PC20-2	TO8	500043	∅ 5.05	20			
PC50-2	BNC	500045	∅ 7.98	50	Quartz glass	+15 ... +60 °C	-15 ... +80 °C
PC100-2	BNC	500039	∅ 11.28	100			
PR33-2	TO8	500052	5.5 x 6.1	33	UV clear glass	-40 ... +100 °C	-55 ... +125 °C
PS20-2	TO8	500049	4.5 x 4.5	20			
PS100-2	CERpin	500047	10 x 10	100	Quartz glass	-20 ... +60 °C	-20 ... +80 °C

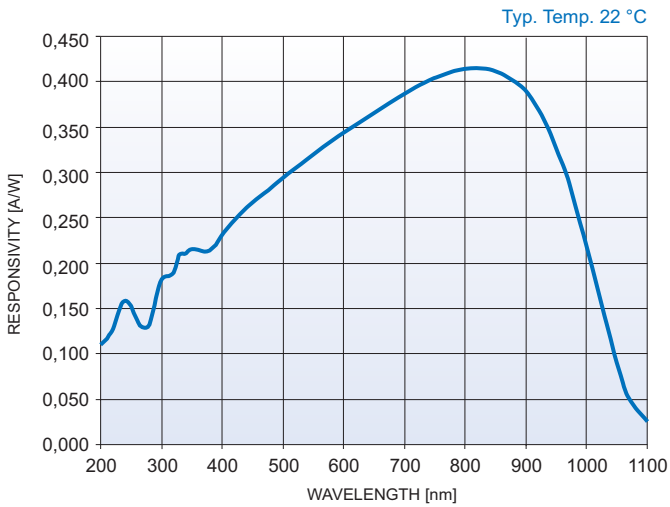
Electrical and optical characteristics (Typical values at 22 °C)

Type No.	Spectral Responsivity (A/W)			Dark current at 5 V (nA)	Capacitance at 5 V (pF)	Rise time at 410 nm, 5 V, 50 Ω (μs)	Shunt Resistance at 10 mV (MΩ)	N.E.P (W/Hz ^{1/2})			
	at 200 nm	at 340 nm	at 850 nm								
PC1-2 TO52	-	typ. 0.17	typ. 0.42	0.2	30	0.1	2,000	8* 10 ⁻¹⁵			
PC2-2 TO5				0.4	60			1* 10 ⁻¹⁴			
PC5 -2 TO5				1.0	100	0.2	1,000	1.5* 10 ⁻¹⁴			
PC10-2 TO5				160	0.3	500	1.6* 10 ⁻¹⁴				
PC20-2 TO8				2.0	0.6	100	2.5* 10 ⁻¹⁴				
PC50-2 BNC				0.1	5.0	650	1.0	70	6* 10 ⁻¹⁴		
PC100-2 BNC					10.0	1,100	2.0	40	1* 10 ⁻¹³		
PR33-2 TO8				-	typ. 0.17	typ. 0.42	2.0	450	0.6	100	2* 10 ⁻¹⁴
PS20-2 TO8							0.2	250		300	1.1* 10 ⁻¹⁴
PS100-2 CERpin							0.1	0.5	1,100	2.0	200

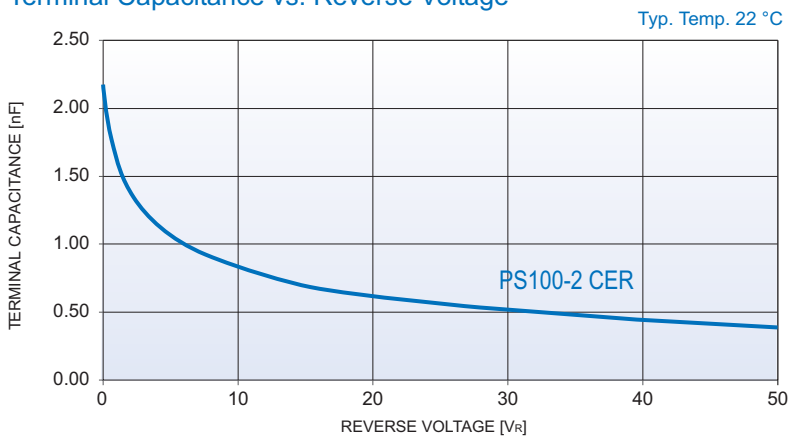
RoHS compliant

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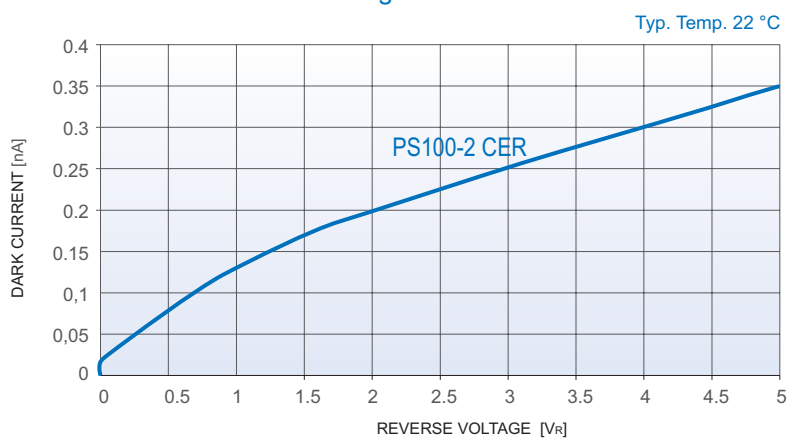
Typical Spectral Response



Terminal Capacitance vs. Reverse Voltage



Dark Current vs. Reverse Voltage



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