

UV/Blue Enhanced Photodiodes

Series 2



Special characteristics:

- long-term stability
- high shunt resistance and sensitivity

Application
Optimized
Solutions

General ratings

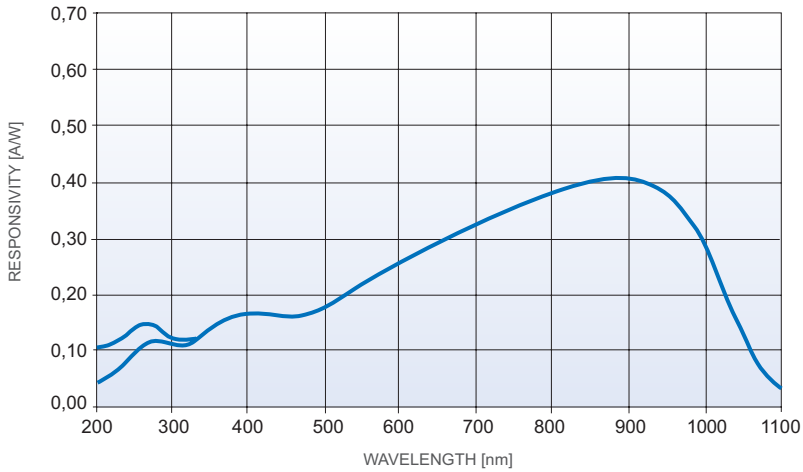
Type No.		Order number	Active area		Dimensional outline	Absolute maximum ratings	
Chip	Package		Size (mm)	Area (mm ²)	Window material	Operating temperatur	Storage temperatur
PC1-2	TO52	500153	∅ 1,13	1	UV clear glass	-20 ... +70 °C	-25 ... +100 °C
PC2-2	TO5	500044	∅ 1,60	2			
PC5 -2	TO5	500046	∅ 2,52	5			
PC10-2	TO5	500041	∅ 3,57	10			
PC20-2	TO8	500043	∅ 5,05	20			
PC50-2	BNC	500045	∅ 7,98	50	Quartz glass		
PC100-2	BNC	500039	∅ 11,28	100	Quartz glass		
PR33-2	TO8	500052	5,5 x 6,1	33	UV clear glass		
PS20-2	TO8	500049	4,5 x 4,5	20	UV clear glass		
PS100-2	CERpin	500047	10 x 10	100	Quartz glass		

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

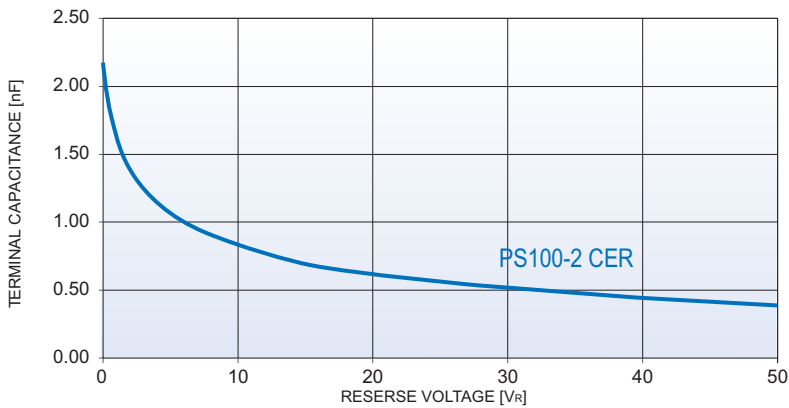
Type No.	Spectral Responsivity (A/W)			Dark current	Capacitance	Rise time	Shunt Resistance	N.E.P			
	at 200 nm	at 340 nm	at 850 nm	at 5 V (nA)	at 5 V (pF)	at 410 nm, 5 V, 50 Ω (μs)	at 10 mV (MΩ)	(W/Hz ^{1/2})			
PC1-2 TO52	-	typ. 0.17	typ. 0.42	0.2	30.0	0.1	2,000	8* 10 ⁻¹⁵			
PC2-2 TO5				0.4	60.0			1* 10 ⁻¹⁴			
PC5 -2 TO5				1.0	100.0			1.5* 10 ⁻¹⁴			
PC10-2 TO5				0.1	typ. 0.17	typ. 0.42	160.0	0.3	500	1.6* 10 ⁻¹⁴	
PC20-2 TO8							2.0	280.0	0.6	100	2.5* 10 ⁻¹⁴
PC50-2 BNC							5.0	650.0	1.0	70	6* 10 ⁻¹⁴
PC100-2 BNC							10.0	1,100.0	2.0	40	1* 10 ⁻¹³
PR33-2 TO8				-	typ. 0.17	typ. 0.42	2.0	450.0	0.6	100	2* 10 ⁻¹⁴
PS20-2 TO8							0.2	250.0		300	1.1* 10 ⁻¹⁴
PS100-2 CERpin							0.1	0.5	1,100.0	2.0	200

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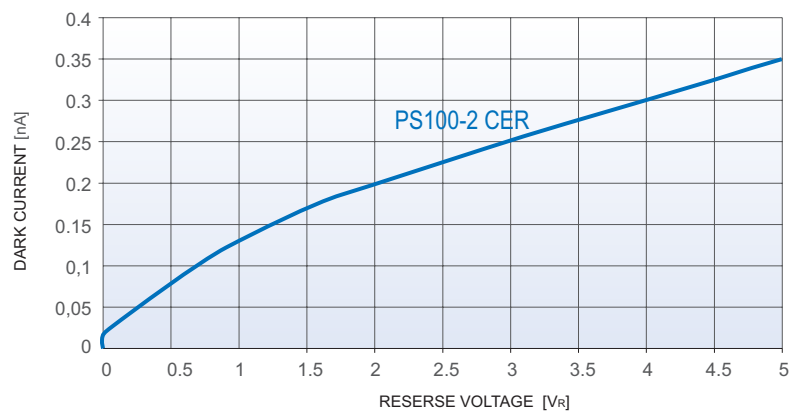
Typical Spectral Response



Terminal Capacitance = f (U_R)



Dark Current = f (U_R)



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