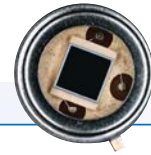


High Speed Epitaxial PIN Photodiodes

Series 5



Special characteristics

- low dark current
- fast response time
- high speed epitaxy

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
PS0.25-5	TO52S1	500122	0.5 x 0.5	0.25	clear glass	-40 °C ... +100 °C	-55 °C ... +125 °C
PS0.25-5	LCC6.1	500973					
PS1-5	TO52i	500475	0.94 x 0.94	0.9			
PS1-5	TO52S3	500128					
PS3.6-5	TO5	500129	1.9 x 1.9	3.60			
PS11.9-5	TO5	500123	3.45 x 3.45	11.90			
PC20-5	TO8	500097	∅ 5.05	20.00			

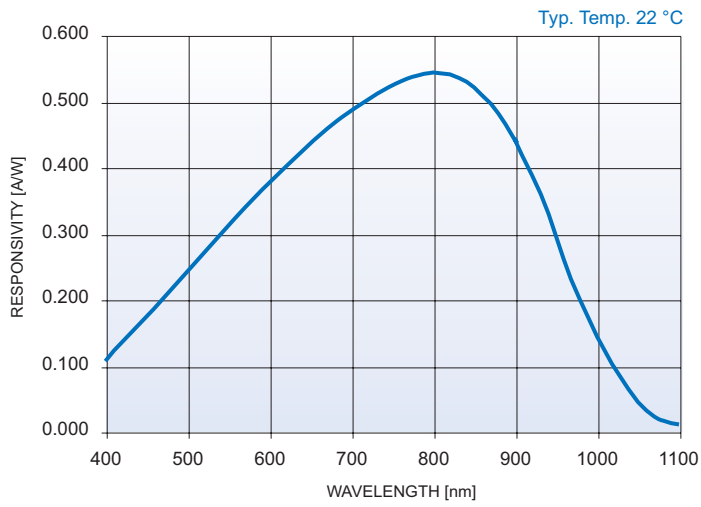
Electrical and optical characteristics (Typical values at 22 °C)

Type No.	Spectral Responsivity at 800 nm (A/W)	Dark current at 20 V (nA)		Capacitance		Rise time at 20 V (ns)	Shunt Resistance at 10 mV (MΩ)	N.E.P (W/Hz ^{1/2})	
		typ.	max.	at 0 V (pF)	at 20 V (pF)			at 0 V	at 20 V
PS0.25-5 TO52S1	typ. 0.52	0.05	0.3	6	1.8	0.4	500	2* 10 ⁻¹⁵	6* 10 ⁻¹⁵
PS0.25-5 LCC6.1									
PS1-5 TO52i		0.1	0.5	15	4.0	1.5		5* 10 ⁻¹⁵	2* 10 ⁻¹⁴
PS1-5 TO52S3		0.2	1.0						
PS3.6-5 TO5		0.4	2.0	90	20.0	2.5	200	2* 10 ⁻¹⁴	5* 10 ⁻¹⁴
PS11.9-5 TO5		1.0	3.0	180	40.0	3.0		5* 10 ⁻¹⁴	1* 10 ⁻¹³
PC20-5 TO8		2.0	5.0	300	65.0	3.5		8* 10 ⁻¹⁴	1.5* 10 ⁻¹³

RoHS compliant

High Speed Epitaxial Pin Photodiodes - Series 5

Typical Spectral Response



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