

Planar Silicon photodiode in a visible blocking, side looker lensed package suitable for assembly on printed circuit boards. That photodiode exhibits low dark current and fast response. The response time can be reduced by applying a reverse bias to lower the capacitance with low impact on the dark current performance.

The preferred operating condition is the photoconductive mode under reverse bias. However that photodiode can also be used in photovoltaic mode.

That photodiode has excellent response in the near IR and has a built-in visible blocking filter, making it suitable for applications where ambient light needs to be rejected.

Key Features

- Low dark current
- Low capacitance
- High shunt resistance
- Built-in visible rejection filter
- Plastic lensed package
- RoHS-compliant

Applications

- Smoke detection
- Near IR light detection



General Characteristics and Electro-optical specifications at 25°C

Parameter	Min	Typical	Max	Units	Conditions
Active area		7.00		mm ²	
Storage Temperature	-40		100	°C	
Operating Temperature	-40		100	°C	
Short Circuit Current		120		μΑ	100fc, 2850K color temperature
Short Circuit Current Temperature Coefficient		0.20		%/°C	2850K color temperature
Open Circuit Voltage		350		mV	100fc, 2850K color temperature
Open Circuit Voltage Temperature Coefficient		-2.0		mV/°C	2850K color temperature
Dark Current			20	nA	-10V Bias
Shunt Resistance		0.25		GΩ	Ofc, 10mV bias
Junction Capacitance			50	pF	Ofc, -3V Bias
Spectral Range	725		1150	nm	
Peak Spectral Response		975		nm	
Sensitivity at peak		0.55		A/W	
Breakdown Voltage	30	140		V	
Angular Response		±48		o	At 50% response
Noise Equivalent Power		2.3X10 ⁻¹⁴		W/√Hz	

Mechanical Characteristics













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