imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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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

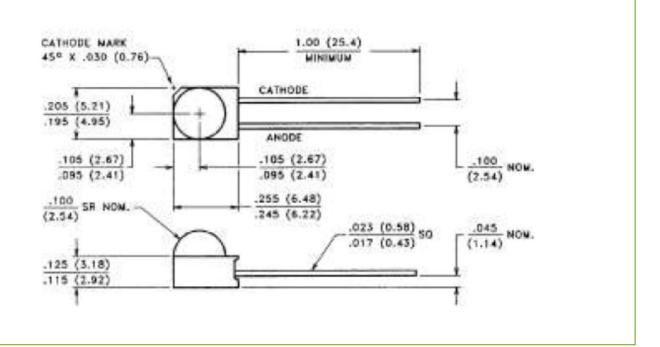
- Smoke detection
- Near IR light detection

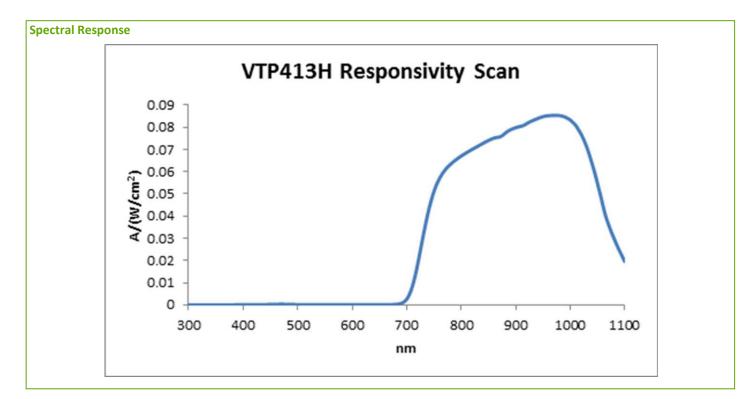


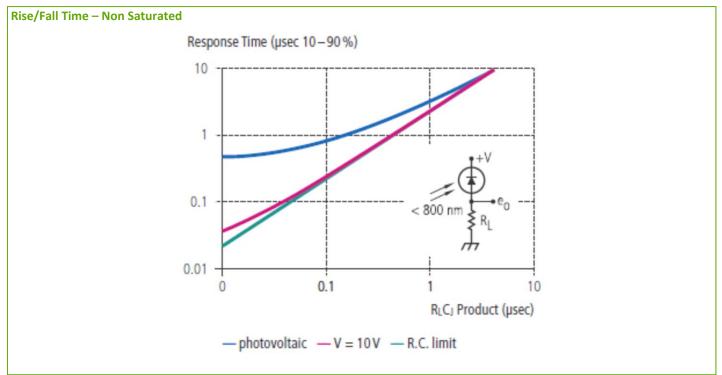
General Characteristics and Electro-optical specifications at 25°C

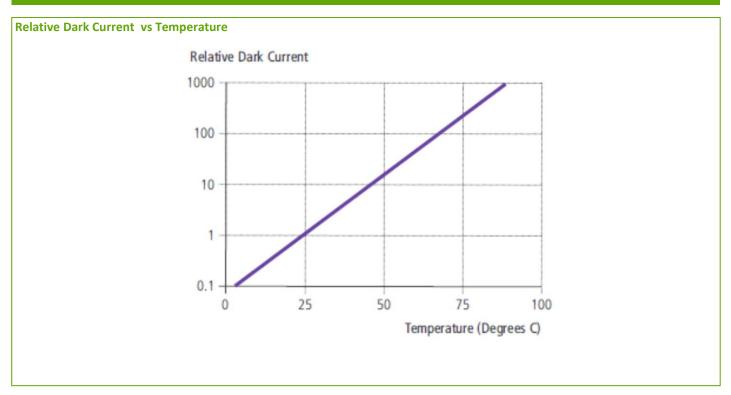
Parameter	Min	Typical	Max	Units	Conditions
Active area		7.00		mm ²	
Storage Temperature	-40		100	°C	
Operating Temperature	-40		100	°C	
Short Circuit Current		120		μΑ	100fc, 2850K color temperature
Short Circuit Current Temperature Coefficient		0.20		%/°C	2850K color temperature
Open Circuit Voltage		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	

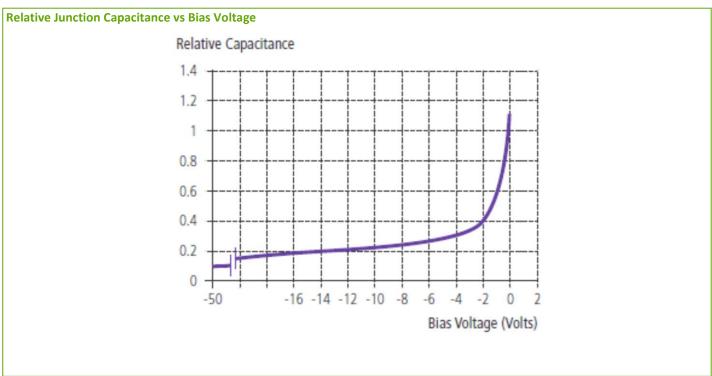
Mechanical Characteristics

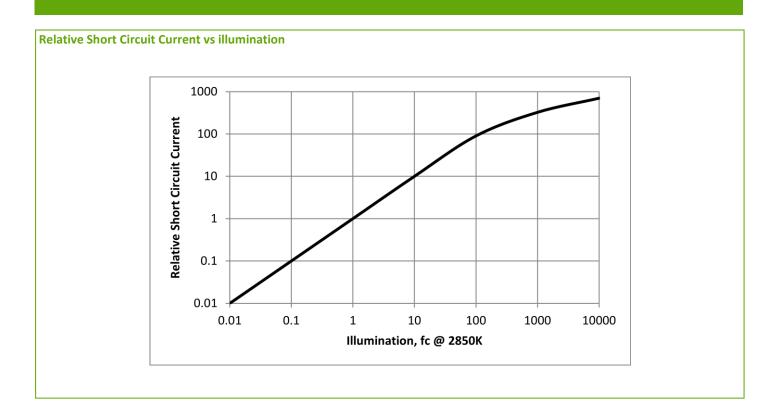












About Excelitas Technologies

Excelitas Technologies is a global technology leader focused on delivering innovative, customized solutions to meet the lighting, detection and other highperformance technology needs of OEM customers.

From analytical instrumentation to clinical diagnostics, medical, industrial, safety and security, and aerospace and defense applications, Excelitas Technologies is committed to enabling our customers' success in their specialty end-markets. Excelitas Technologies has approximately 3,000 employees in North America, Europe and Asia, serving customers across the world.

Excelitas Technologies

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