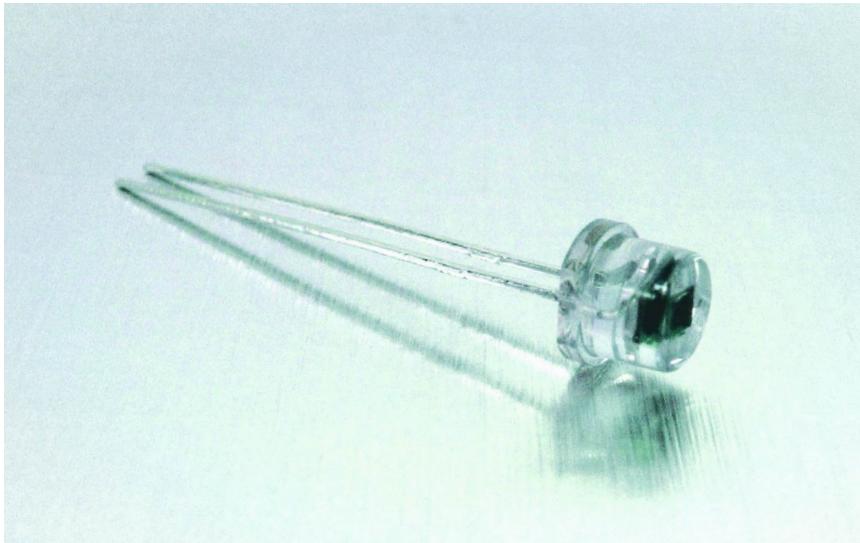


VTP1220FBH

IR Blocking Silicon Photodiode



RoHS Compliant

Description

This VTP processed P on N planar silicon photodiode is housed in a clear, T-1 ¼ flat end-looking package.

These diodes contain an integral IR rejection filter, offering good visual response.

The spectral response is similar to a photocell and to the human eye, making it ideal for applications where the response should only be influenced by visible light.

Features

- Visible light response with an IR blocking filter
- Cadmium free alternative to photocells
- Low dark current
- Low junction capacitance

Applications

- Street light switching
- Contrast control
- Colorimeters
- Camera exposure control

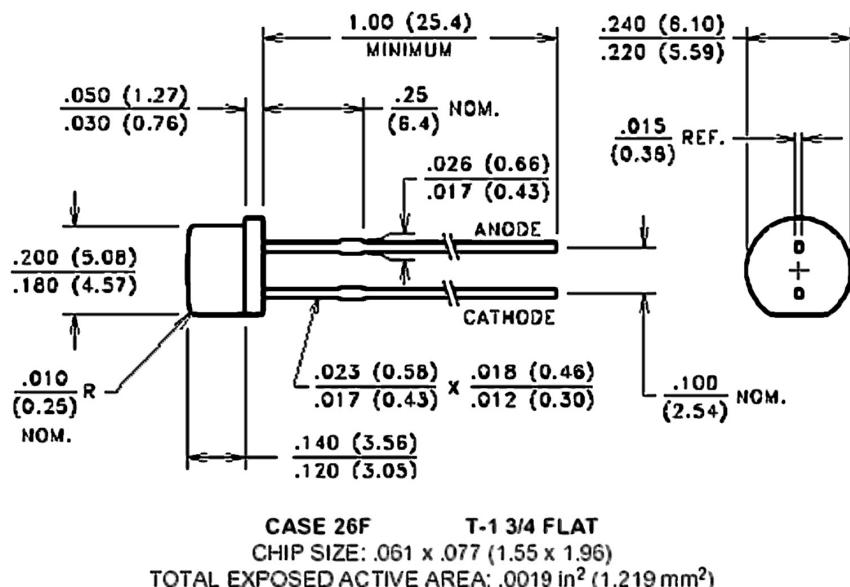
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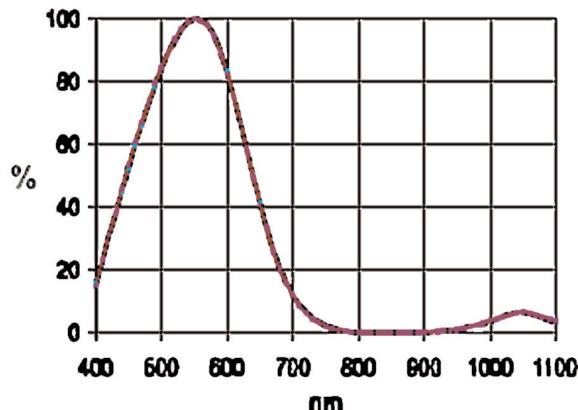
VTP1220FBH IR Blocking Silicon Photodiode**Table 1: Electro-Optical Characteristics @ 25°C**

Parameter	Sym	Min.	Typ.	Max.	Units
Short Circuit current @ 100fc, 2850K	I _{SC}	0.7	-	-	μA
Dark Current @ V _R = 10V	I _D	-	-	10	nA
Junction Capacitance @ V _R = 0V, 1MHz	C _J	-	-	18	pF
Open Circuit Voltage @ 100fc	V _{OC}	-	280	-	mV
Peak Spectral Response	λ _{PK}	-	550	-	nm
Sensitivity @ peak	S _R	-	0.27	-	A/W
Angular Response (50% Point)	θ1/2	-	± 70	-	Degrees

Table 2: Absolute Maximum Ratings

Parameter	Sym	Min.	Typ.	Max.	Units
Storage Temperature	T _{ST}	-40	-	85	°C
Operating Temperature	T _{OP}	-40	-	85	°C

Figure 1: Mechanical Characteristics

VTP1220FBH IR Blocking Silicon Photodiode**Figure 2: Relative Spectral Response****Ordering Information**

While the information in this data sheet is intended to describe the form, fit and function for this product, Excelitas reserves the right to make changes without notice.

For more information e-mail us at generalinquiries@excelitas.com or visit our web site at www.excelitas.com. All values are nominal; specifications subject to change without notice.

North American**Customer Support Center**

1-800-222-1222

22001 Dumberry Road

Vaudreuil, QC J7V 8P7

Canada

Telephone: (+1) 450-424-3300

Toll Free Telephone: (+1) 866-574-6786

Fax: (+1) 450-424-3345

Toll Free Fax: (+1) 877-574-1329

szss20@163.com**European Headquarters**

Wenzel-Jaksch-Str.31

65199 Wiesbaden, Germany

Telephone: (+49) 611-492-247

Fax: (+49) 611-492-170

Asia Headquarters

#06-12 7 Ayer Rajah Crescent

Singapore 139947

Telephone: (+65) 6775-2022

Telephone: (+65) 6770-4366

Fax: (+65) 6775-1008

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 TECHNOLOGIES