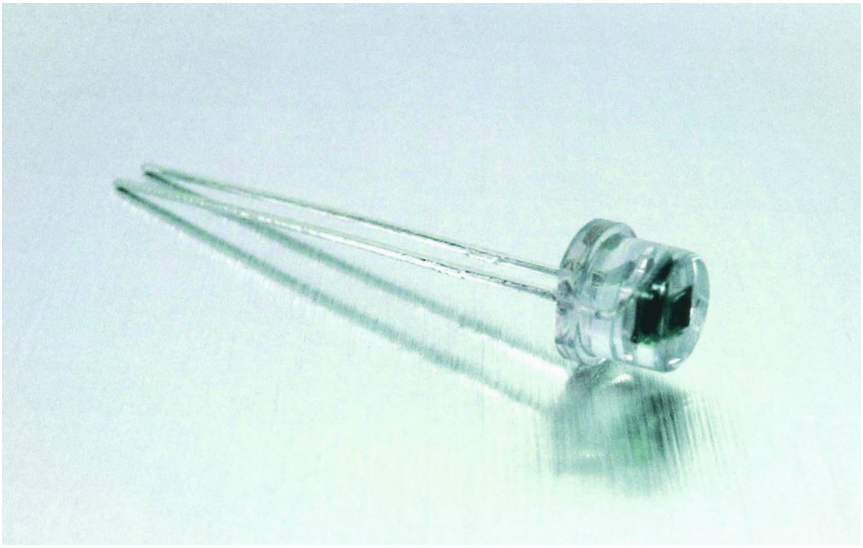
DATASHEET

VTP1220FBH

IR Blocking Silicon Photodiode



RoHS Compliant

Description

This VTP processed P on N planar silicon photodiode is housed in a clear, T-1 ¾ 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

EXCELITAS TECHNOLOGIES

VTP1220FBH IR Blocking Silicon Photodiode

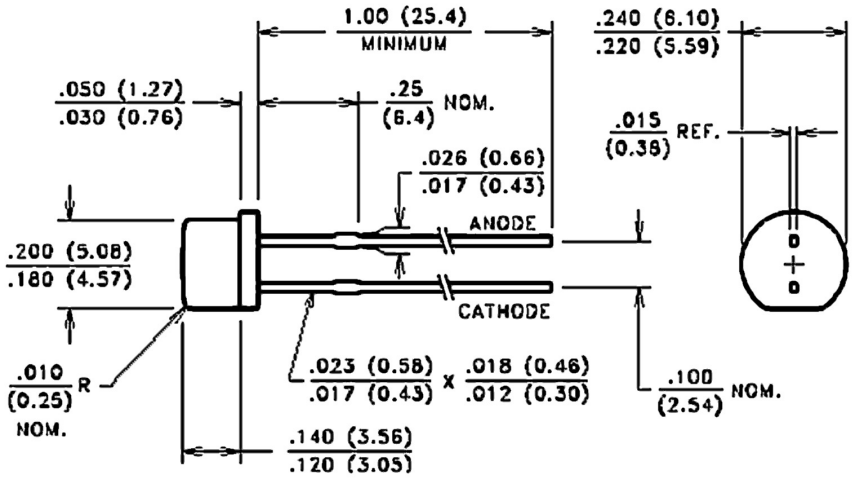
Table 1: Electro-Optical Characteristics @ 25ºC

Parameter	Sym	Min.	Typ.	Max.	Units
Short Circuit current @ 100fc, 2850K	Isc	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

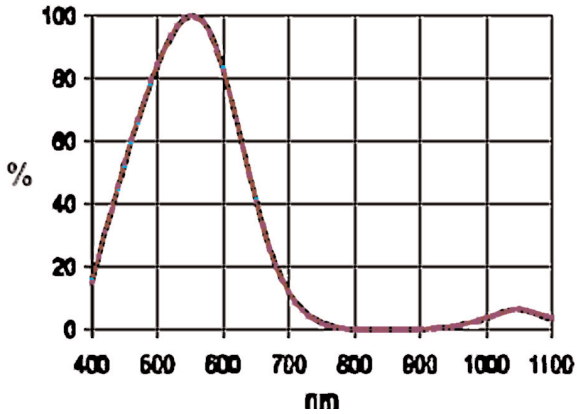
Parameter	Sym	Min.	Typ.	Max.	Units
Storage Temperature	T_{ST}	-40	-	85	ºC
Operating Temperature	T_{OP}	-40	-	85	ºC

Figure 1: Mechanical Characteristics



CASE 26F **T-1 3/4 FLAT**
CHIP SIZE: .061 x .077 (1.55 x 1.96)
TOTAL EXPOSED ACTIVE AREA: .0019 in^2 (1.219 mm^2)

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.

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