

Features

- Planar photodiode with BG-18 filter
- Low capacitance
- Fast switching time
- Low leakage current
- Linear response vs irradiance
- TO-46 base with epoxy dome lens

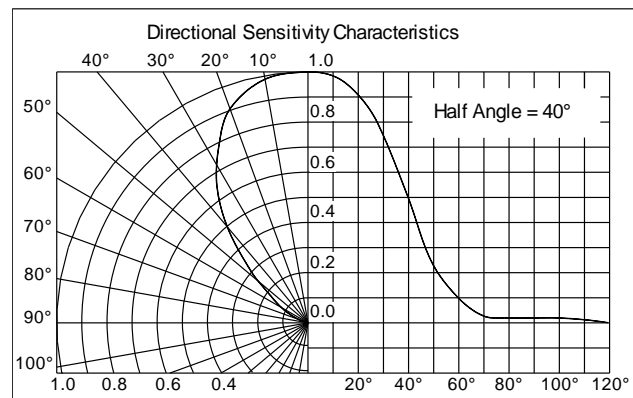
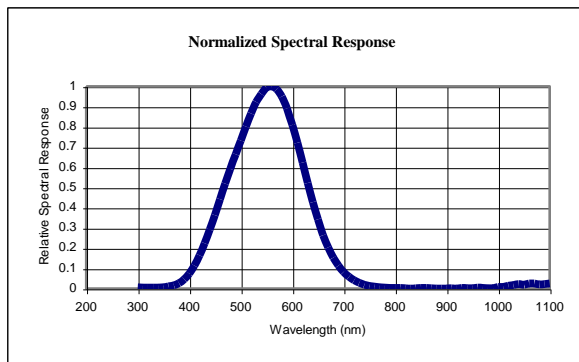
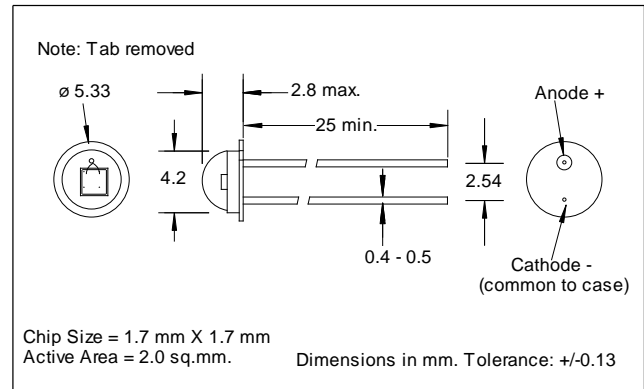
Description

The SLD-68-026 Silicon planar photodiode with added BG-18 filter is designed for visible light detection, TO-46 package with epoxy dome lens allow wide angle of detection. The photodiode is suitable for photopic sensing applications such as: color sensing, analytics, safety equipment and special sensors for automation. Low dark current and low capacitance make it the ideal detector for visible light detection applications.

Absolute Maximum Ratings

Storage Temperature	-20°C to +75°C
Operating Temperature	-20°C to +75°C
Soldering Temperature (3)	260°C

- Notes: (1) Ee = light source @ 2854 °K
 (2) Ee = light source @ $\lambda = 560$ nm
 (3) >2 mm from case for <5 sec.



Electrical Characteristics (T_A=25°C unless otherwise noted)

Symbol	Parameter	MIN	TYP	MAX	UNITS	TEST CONDITIONS
I _{SC}	Short Circuit Current	7.5	11.0		μA	V _R =0V, Ee=25mW/cm ² (1)
V _{OC}	Open Circuit Voltage		0.35		V	Ee=25mw/cm ² (1)
I _D	Reverse Dark Current:			100	nA	V _R = 5V, Ee=0
C _J	Junction Capacitance		40		pF	V _R =0, Ee=0, f=1MHz
t _R	Rise Time		1.0		μs	V _R =10V, R _L =1kΩ (2)
t _F	Fall Time		1.5		μs	V _R =10V, R _L =1kΩ (2)
TC _I	Temp. Coef., I _{SC}		+0.2		%/°C	(1)
V _{BR}	Reverse Breakdown Voltage		50		V	I _R =100μA
λ _P	Maximum Sensitivity Wavelength		550		nm	
λ _R	Sensitivity Spectral Range	400		700	nm	
θ _{1/2}	Acceptance Half Angle		40		deg	(off center-line)

Specifications subject to change without notice.

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