

SLD-70E-525-1.4

Green Response Photodiode

Data Sheet 106469 Rev 02

Features

- Narrow bandwidth
- High spectral sensitivity to green visible range
- Fast switching time
- Low leakage current

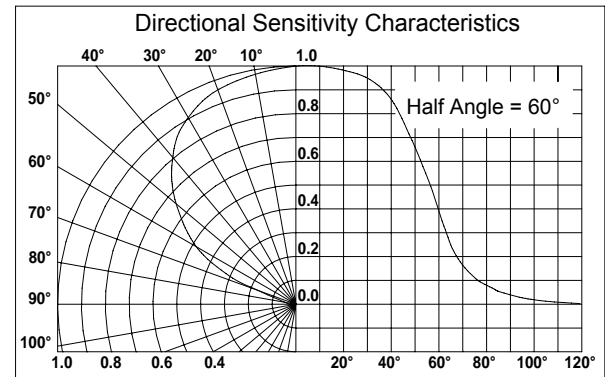
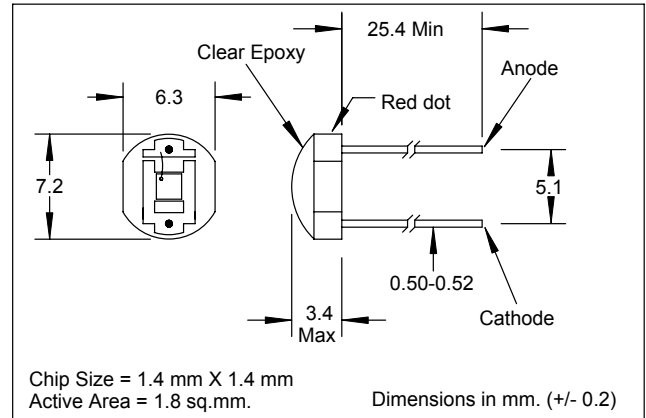
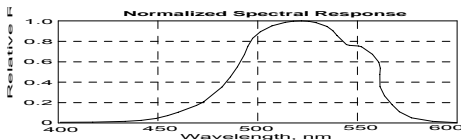
Description

The Silonex SLD-70E-525-1.4 GaP photodiode is designed for visible green detection, ceramic package with epoxy dome lens allow wide angle of detection. The photodiode is suitable for many applications such as: optical communications, color sensing, analytics, light barriers, daylight detection and special sensors for automation.

Absolute Maximum Ratings

Storage Temperature	-30°C to +85°C
Operating Temperature	-30°C to +85°C
Soldering Temperature (2)	260°C

Notes: (1) Ee = source @ 2854°K.
 (2) >2 mm from base for < 5 sec.



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

Symbol	Parameter	Min	Typ	Max	Units	Test Conditions
I _{sc}	Short circuit photo current		1.7		μA	Ee = 500 Ftc, (1)
I _D	Reverse dark current			10	nA	V _R = 5V, Ee=0
λ _P	Maximum sensitivity wavelength		525		nm	V _R = 0V
λ _R	Sensitivity spectral range	480		560	nm	V _R = 0V
R _{λ,P}	Responsivity at λ _P	0.15	0.25	0.38	A/W	V _R = 0V
λ _{1/2}	Spectral Bandwidth @ 50%		75		nm	V _R = 0V
Jc	Junction capacitance		180		pF	V _R = 0V
t _R	Rise Time / Fall Time		35		ns	V _R = 0V, R _L = 50 Ω
V _{BR}	Reverse Voltage	5			V	I _R = 10μA
θ _{1/2}	Acceptance Half Angle		60		deg	(off center-line)

Specifications subject to change without notice.