

SPDI441-16F

PIN Photo Diode

The SPDI441-16F is a high-output, high-speed silicon PIN photodiode mounted in a sidelooking package.

Features

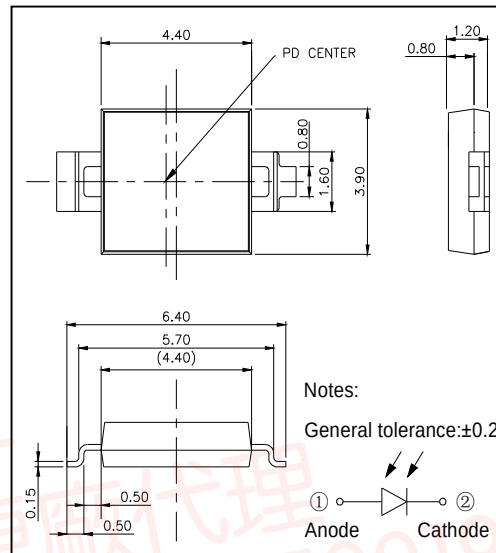
- SpO₂ Sensor Detector Module
- High-Output Power
- High-Speed Response

Application

- Optical Detectors
- Optical Sensors

Dimensions

(Unit:mm)



MAXIMUM RATINGS

(Ta= 25°C)

Item	Symbol	Rating	Unit
Reverse Voltage	V_R	35	V
Operating Temperature	Topr.	-25~+85	°C
Storage Temperature	Tstg.	-30~+100	°C
Soldering temperature *1	Tsol.	260	°C

*1. Lead Soldering Temperature(3mm from case for 5sec)

ELECTRO- OPTICAL CHARACTERISTICS

(Ta= 25°C)

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Open circuit voltage	V_{OC}	$E_V=1000\text{Lux}^{*2}$		0.36		V
Short circuit current	I_{SC}			20		μA
Dark current	I_D	$V_R=10\text{V}$			30	nA
Capacitance	C_t	$V=0\text{V}, f=100\text{kHz}$		15		pF
Spectral sensitivity	λ		450~1100			nm
Peak wavelength	λ_p			990		nm
Half angle	$\Delta\theta$			±60		deg.

*2. Irradiance by CIE standard light source A (2856K tungsten lamp)

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