

SPDI552-02 PIN Photo Diode

The SPDI552-02 is a high-output, high-speed silicon PIN photodiode mounted in a sidelooking package.

Features

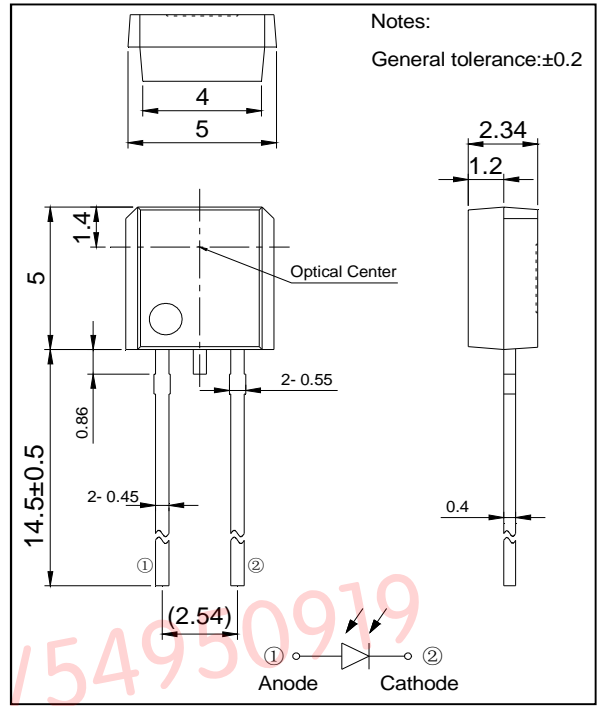
- High-Output Power
- High-Speed Response

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*1	$T_{opr.}$	-40~+105	°C
Storage Temperature	$T_{stg.}$	-40~+110	°C
Soldering temperature *2	$T_{sol.}$	260	°C

*1. Hot and cold shock test 100 times, conditions -40°C:30min~120°C:30min

*2. 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}	$E_V=1000\text{Lux}^{*2}$		0.4		V
Short circuit current	I_{SC}			28		μA
Dark current	I_D	$V_R=10\text{V}$			10	nA
Capacitance	C_t	$V=0.1\text{V}, f=100\text{kHz}$		22		pF
Spectral sensitivity	λ			430~1090		nm
Peak wavelength	λ_p			880		nm
Half angle	$\Delta\theta$			±70		deg.

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

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