

SPDE52-J

Dual Photo Diode

SPDE52-J consists of two high-sensitive, blue enhanced silicon photodiodes mounted on a top-view ceramic stem.

Features

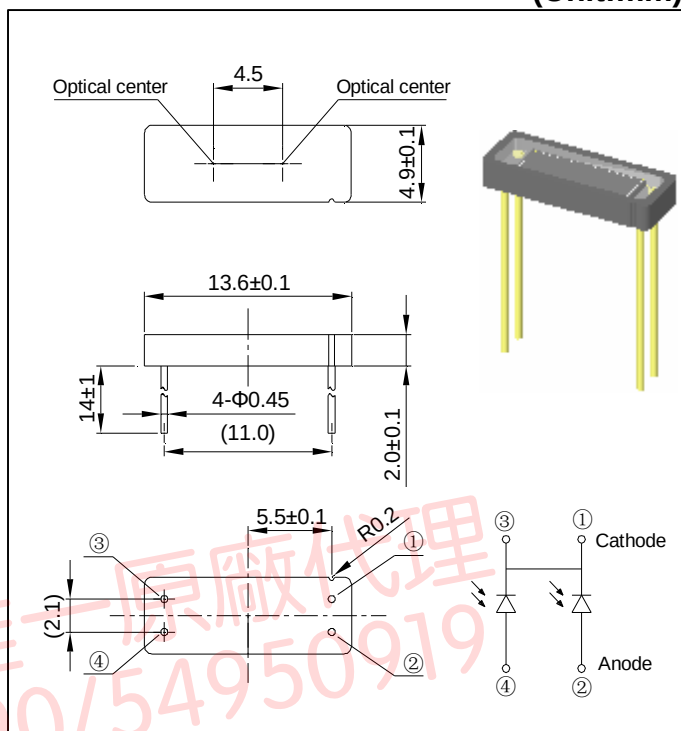
- Top-view ceramic stem package
- High-Sensitivity
- Blue enhanced
- RoHS compliance

Applications

- Color sorter
- Genreal usage

Dimensions

(Unit:mm)



Maximum Ratings

(Ta= 25°C)

Item	Symbol	Rating	Unit
Reverse voltage	V_R	35	V
Operating temperature	$T_{opr.}$	-30~+70	°C
Storage temperature	$T_{stg.}$	-40~+80	°C
Soldering temperature ^{*1}	$T_{sol.}$	260	°C

*1. For MAX.5 seconds at the position of 2mm from the case

Electro- Optical Characteristics

(Ta= 25°C)

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Open circuit voltage	V_{OC}	EV=1000Lux ^{*2}		0.37		V
Short circuit current	I_{SH}	EV=1000Lux ^{*2}		85		μA
		EV=1×10 ⁻⁵ W/cm ² ^{*3}		340		nA
Dark current	I_d	$V_R=10V$			30	nA
Capacitance	C_t	$V_R=0V, f=1MHz$		1000		pF
Temperature coefficient of V_{oc}	α_t			-2.2		mV/°C
Temperature coefficient of I_{sc}	β_t			0.18		%/°C
Spectral sensitivity	λ			300~1000		nm
Peak wavelength	λ_p			700		nm
Half angle	$\Delta\theta$			±70		deg.

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

*3. Irradiance by blue LED ($\lambda_p=460nm$)

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