

## PD101SC0SS2

## Photodiode

Photodiode for 12× Speed Writing CD-R/RW power monitor

### Features

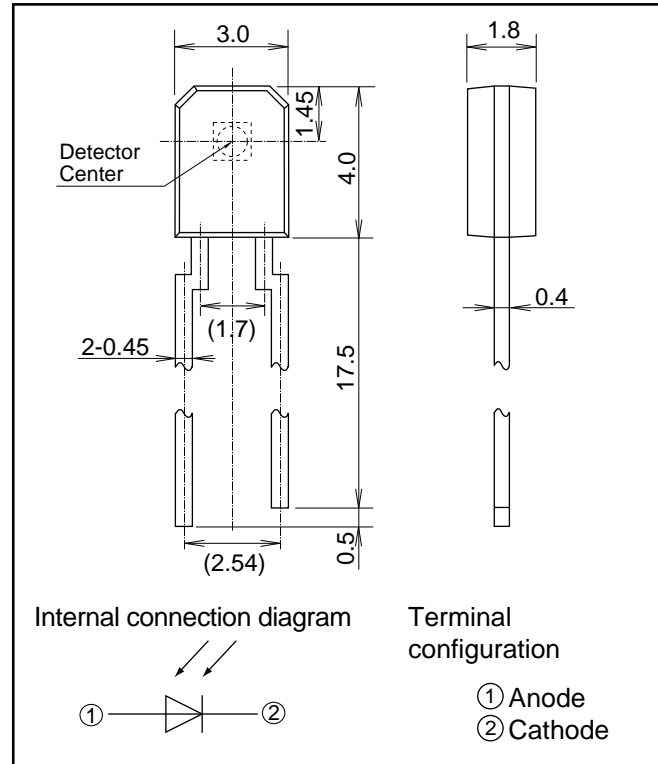
- (1) High speed response  
(Response frequency TYP. 400 MHz)  
CD-R/RW : 12× speed writing
- (2) High sensitivity (Sensitivity TYP. 0.55 A/W)
- (3) Compact and thin package  
(Package dimensions: 4.0 × 3.0 × 1.8 mm)

### Applications

- (1) CD-R drives
- (2) CD-RW drives

### Outline Dimensions

(Unit:mm)



### Specifications

(Ta=25°C)

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Short circuit current	Isc	130	170	200	nA	* Ev=100 lx
Dark current	Id	—	—	1.0	nA	VR=5 V, Ev=0
Sensitivity	S	0.4	0.55	0.63	A/W	λ= 780 nm
Terminal capacitance	Ct	—	1.5	—	pF	VR=5 V, f=1MHz
Peak sensitivity wavelength	λp	—	820	—	nm	—
Response frequency	fc	200	400	—	MHz	VR=5 V, RL=50Ω, -3 dB
Response time	tr,tf	—	2.2	—	ns	VR=5 V, RL=50Ω
Operating temperature	Topr	-25	—	+85	°C	—

\* Ev : Illuminance by CIE standard light source A (tungsten lamp)

As of September, 2002

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(Internet)

•Data for Sharp's optoelectronic/power devices is provided on internet. (Address <http://sharp-world.com/ecg/>)

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