SHARP

PD101SC0SS

Under development

New product

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

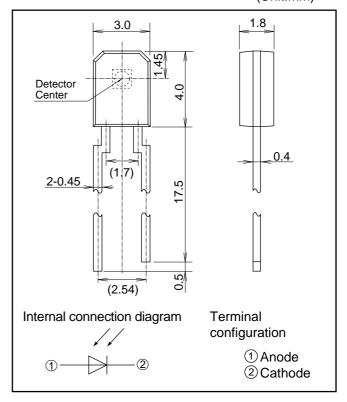
- (2) High sensitivity (Sensitivity TYP. 0.55 A/W)
- (3) Compact and thin package (Package dimensions: $4.0 \times 3.0 \times 1.8$ mm)

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	360	450	_	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	-	3.5	_	pF	VR=5 V, f=1MHz
Peak sensitivity wavelength	λр	-	820	_	nm	_
Response frequency	fc	200	400	_	MHz	$V_R=5 V$, $R_L=50\Omega$, $-3 dB$
Operating temperature	Topr	-25	_	85	°C	_

 $[\]ast$ Ev : Illuminance by CIE standard light source A (tungsten lamp)

As of June, 2001

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