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|-------------------|---|
| Under development | |
| New product | ● |

PD101SC0SS

Photodiode

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

Features

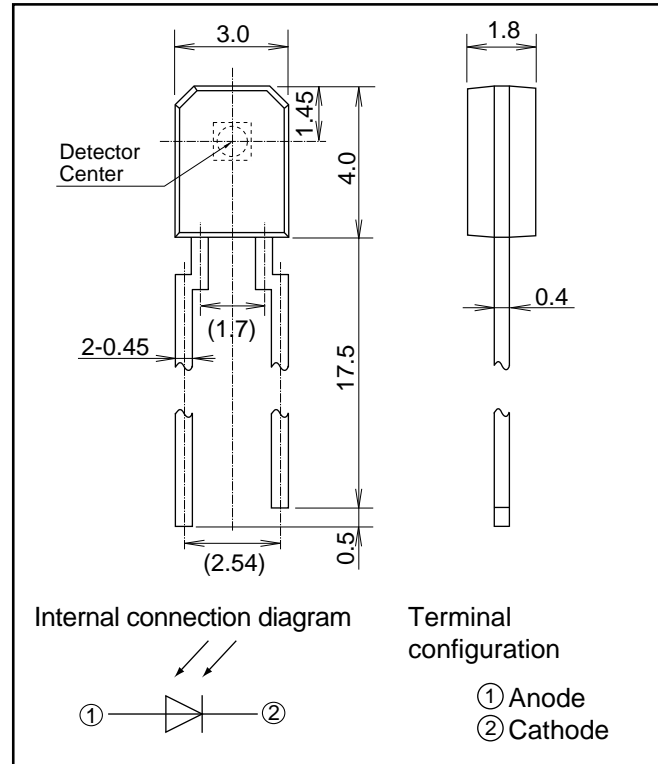
- (1) High speed response
(Response frequency TYP. 400 MHz)
CD-R/RW : 12× speed writing
- (2) High sensitivity (Sensitivity TYP. 0.55 A/W)
- (3) Compact and thin package
(Package dimensions: 4.0 × 3.0 × 1.8 mm)

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 | 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 | λp | – | 820 | – | nm | – |
| Response frequency | fc | 200 | 400 | – | MHz | VR=5 V, RL=50Ω, –3 dB |
| Operating temperature | Topr | –25 | – | 85 | °C | – |

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

As of June, 2001

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