

PD101SC0SS0F Datasheet



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DiGi Electronics Part Number	PD101SC0SS0F-DG
Manufacturer	Sharp Microelectronics
Manufacturer Product Number	PD101SC0SS0F
Description	SENSOR PHOTODIODE 820NM RADIAL
Detailed Description	Photodiode 820nm Radial, Side View

This model PD101SC0SS0F is available at DiGi Electronics.

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Purchase and inquiry

Manufacturer Product Number:

PD101SC05S0F

Series:

-

Wavelength:

820nm

Spectral Range:

-

Responsivity @ nm:

0.55 A/W @ 780nm

Voltage - DC Reverse (Vr) (Max):

5 V

Active Area:

-

Operating Temperature:

-25°C ~ 85°C

Package / Case:

Radial, Side View

Manufacturer:

Sharp Microelectronics

Product Status:

Obsolete

Color - Enhanced:

-

Diode Type:

-

Response Time:

-

Current - Dark (Typ):

1nA

Viewing Angle:

-

Mounting Type:

Through Hole

Environmental & Export classification

Moisture Sensitivity Level (MSL):

3 (168 Hours)

HTSUS:

8541.49.1050

ECCN:

EAR99

SHARP

Under development	
New product	●

PD101SC05S**Photodiode**

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

Features

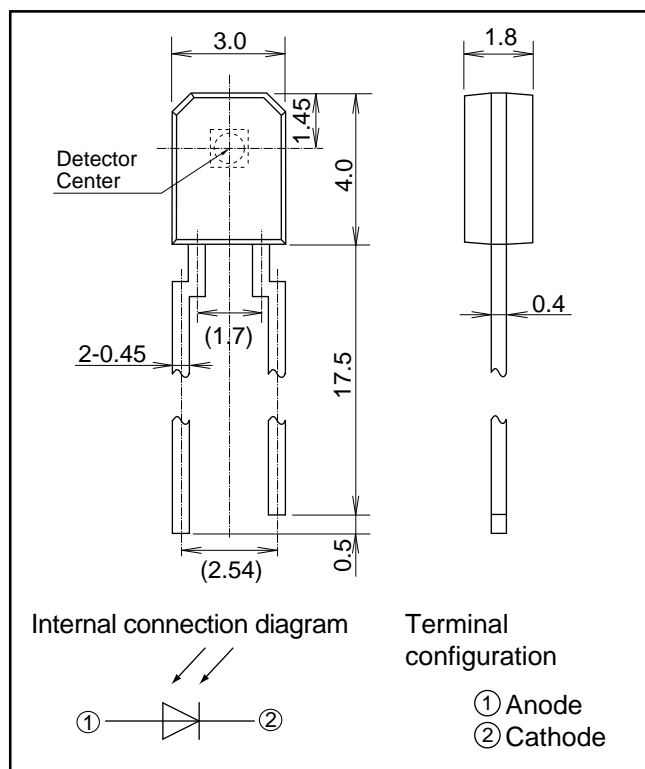
- (1) High speed response
(Response frequency TYP. 400 MHz)
CD-R/RW : 12× speed writing
- (2) High sensitivity (Sensitivity TYP. 0.55 A/W)
- (3) Compact and thin package
(Package dimensions: 4.0 × 3.0 × 1.8 mm)

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	V _R =5 V, E _v =0
Sensitivity	S	0.4	0.55	0.63	A/W	λ= 780 nm
Terminal capacitance	Ct	–	3.5	–	pF	V _R =5 V, f=1MHz
Peak sensitivity wavelength	λ _p	–	820	–	nm	–
Response frequency	f _c	200	400	–	MHz	V _R =5 V, R _L =50Ω, –3 dB
Operating temperature	T _{opr}	–25	–	85	°C	–

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

As of June, 2001

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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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