PD1300-1 OECA-FC100

1300/1550nm PIN

Description

The PD1300-1 OECA-FC100 is a high speed, low capacitance 1300nm InGaAs - PIN photodiode in a FC-receptacle. The assembled TO case is electrical isolated from the FC-receptacle (maximum voltage 20V) to protect the diode against ESD-damaging.

Applications

- Digital and analog optical communication
- Optical LAN
- General applications

Features

- Wavelength λ =1300/1550 nm
- Bandwidth 2.0GHz

Device can differ from picture.
For details and pin out please refer to the drawing

Absolute Maximum Ratings

(T_C = 25°C ± 2°C)

Parameter	Symbol	min.	max.	Unit
Reverse Voltage	V_R		20	V
Operating Temperature	$T_{OP} = T_C$	-40	+85	°C
Storage Temperature	T_{stg}	-40	+85	°C
Forward Current	I_F		10	mA
Optical Power input	P_O		10	mW

Optical and Electrical Characteristics

(T_C = 25°C ± 2°C)

Parameter	Symbol	Condition	min.	typ.	max.	Unit
Responsivity	R	λ = 1310nm note 1 λ = 1550nm note 1 V_R = 5V	0.76 0.85			A/W
Bandwidth	f_C	note 2	1	2		GHz
Capacitance	C	f = 1 MHz		0.95	1.10	pF
Dark Current	I_d	V_R = 5V		30	160	pA

Note 1 Fiber 62.5/125µm
Note 2 -10dBm, small signal modulation

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represented by:

DIN EN ISO 9001:2000
Certificate: TNI080629OG

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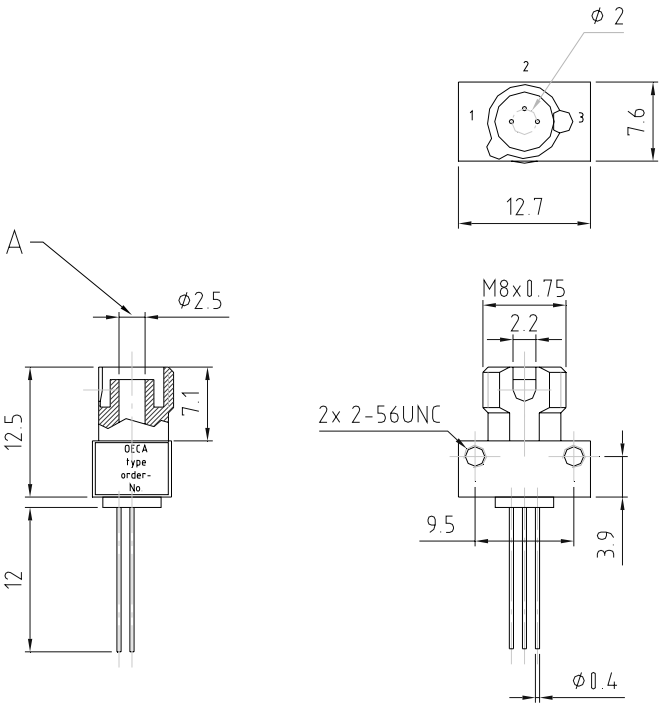
Drawing

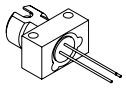


A - ϕ 2.5, tolerance grade 3, DIN EN 61754-13

tolerances acc. to DIN ISO 2768mH
Pinout acc. to specification

all dimensions in mm

accessories:
dust cap
screw 2-56 UNC l2xl



Pin-Out

Pin	PD1300-1
1	Cathode
2	Case
3	Anode

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