

S2383SPL OECA-SMA100

Description

The S2383SPL OECA-SMA100 is a Si-APD in a SMA-receptacle. The assembled TO-46 case is electrical isolated from the SMA-receptacle (maximum voltage 20V) to protect the diode from ESD-damaging. The device is designed for multimode fiber applications (100/140 μm).



This picture gives only an impression how the real device will look like. For details and pin out please refer to the drawing on page 2

Application

- Optical fiber communications

Features

- Wavelength $\lambda = 800 \text{ nm}$
- High sensitivity and low noise

Absolute Maximum Ratings

Parameter	Symbol	min.	max.	Unit
Operating Temperature	$T_{OP} = T_C$	-20	+85	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-40	+85	$^{\circ}\text{C}$

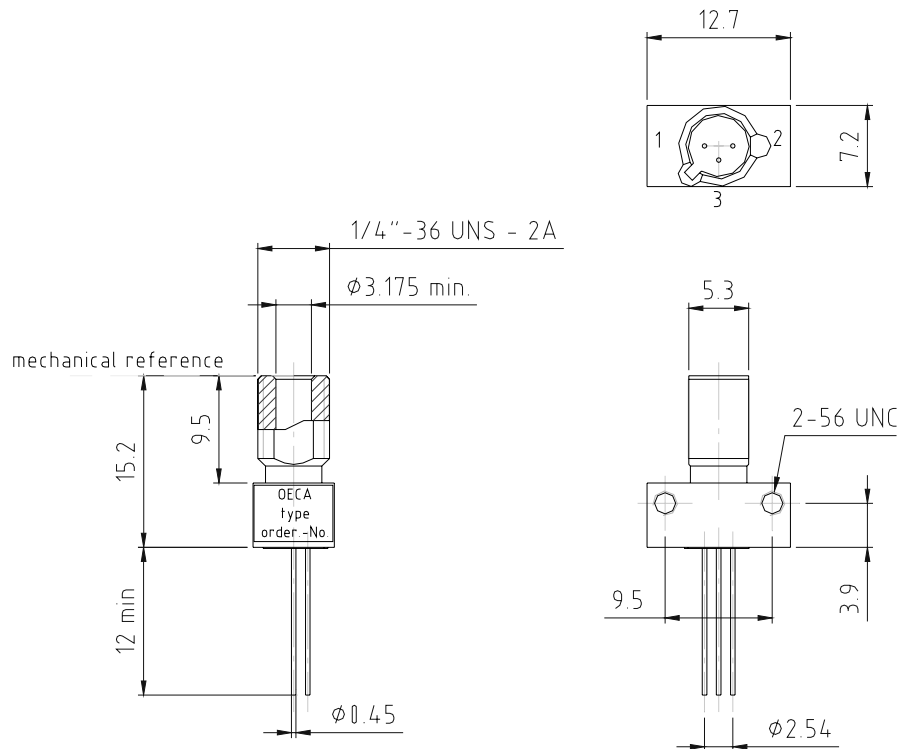
Optical and Electrical Characteristics

($T_C = 25^{\circ}\text{C} \pm 2^{\circ}\text{C}$)

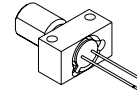
Parameter	Symbol	Condition	min.	typ.	max.	Unit
Peak Sensitivity Wavelength	λ_p	$M = 100$		800		nm
Spectral Response Range	λ		400		1000	nm
Photo Sensitivity	S	$\lambda = 800\text{nm}, M = 1$ ^{note1}		0.5		A/W
Breakdown Voltage	V_{BR}	$I_D = 100 \mu\text{A}$		150	200	V
Temp. Coefficient of V_{BR}				0.65		V/ $^{\circ}\text{C}$
Dark Current	I_D	$M = 100$		0.2	2	nA
Cut-off Frequency	f_c	$R_L = 50 \Omega$ $M = 100$		600		MHz
Terminal Capacitance	C_t	$M = 100$		6		pF
Excess Noise Figure	X	$\lambda = 800\text{nm}, M = 100$		0.3		
Gain	M	$\lambda = 800\text{nm}$		100		

Note 1 - Fiber 100/140 μm , Graded Index, NA = 0.29.

Drawing



Pinout according to specification
tolerances acc. to DIN ISO 2768mH, unless otherwise stated



Accessories: dust cover
nut 1/4"-362UNS
washer 1/4"
2x screw 2-56UNC

All Dimensions in mm

Pin-Out

Pin	S2383SPL
1	Cathode
2	Anode
3	Case

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