

### InGaAs APD FOR OTDR

### Features:

♦ Small Dark Current: 1~10 nA

◆ Small Terminal Capacitance:CT = 0.35 pF at 0.9 VBR

♦ High Speed Response :fc = 2 GHz at M = 10

Detecting Area Size:50um

Various connectors and different flange options

## **Applications:**

OTDR System

Optical fiber communications

Distance measurement

# **Absolute Maximum Ratings:**

Parameter	Symbol	Min.	Тур.	Max.	Unit
Forward Current	F	-	-	10	mA
Reverse Current	IR	-	-	0.5	mA
Operating Case Temp.	TC	-40	-	85	°C
Storage Temperature	TSTG	-10	-	60	°C
Lead Soldering Temp.	TSOL	-	-	260(10s)	°C
Relative Humidity	RH	0	-	85	%

# **Electrical / Optical Characteristics:**

Parameter	Symbol	Min.	Тур.	Max.	Unit	Notes
Reverse Breakdown Voltage	VBR	40		50	V	ID = 100 μA
Temperature Coefficient of Reverse Breakdown Voltage1	δ	ı	0.1	ı	V/°C	-
Multiplied Dark Current	IDM	-	5	10	nA	M = 10  to  40
Terminal Capacitance	Ct	ı	0.35	ı	pF	VR = VBR x 0.9, f = 1
Cut-off Frequency	fC	2	-	-	GHz	M = 10
Pagnangivity	c	0.85	0.90	-	A/W	λ = 1310 nm, M = 1
Responsivity	vity S		0.95	-	A/VV	λ = 1550 nm, M = 1
Optical Return Loss	ORL	30	40	-	dB	SMF

ADD: No.189, BINHE ROAD, HUAYANG, TIANFU NEW AREA, CHENGDU, SICHUAN, CHINA 610213

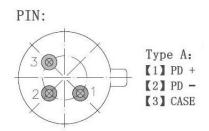
TEL: +86-28-64570369 FAX: +86-28-64570369

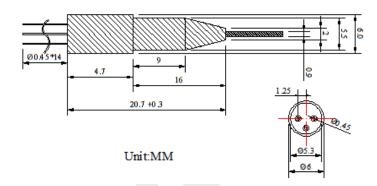
E-mail: sales@osemos.com http://www.osemos.com



### **Pin Assignment:**

### **Drawing**





#### Nomenclature:

OSMPDP — D D D D D

Α	Bandwidth	3≤3Gb/s					
В	Compostor	F=FC/UPC	FA=FC/APC	S=SC/UPC	SA=SC/APC		
В	Connector	L=LC/PC	LA=LC/APC	N=None			
				M4=40			
С	Multifactor	M2:	=20		M4=40		
D	Multifactor Fiber Type	M2: A=9/125/900um	=20 B=9/125/250um	C=50/125/900um			

#### **Precaution:**

- (1) The modules should be handled in the same manner as ordinary semiconductor devices to prevent the electro-static damages. For safe keeping and carrying, the modules should be packaged with ESD proof material. To assemble the modules on PCB, the workbench, the soldering iron and the human body should be grounded.
- (2) Please pay special attention to the atmosphere condition because the dew on the module may cause some electrical damages.
- (3) Under such a strong vibration environment as in automobile, the performance and reliability are not quaranteed.

### **Notice:**

OSM reserves the right to make changes or discontinue any product or service identified in this publication, without notice, in order to improve design and/or performance. Applications that are described herein for any of the products are for illustrative purposes only. OSM makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

ADD: No.189, BINHE ROAD, HUAYANG, TIANFU NEW AREA, CHENGDU, SICHUAN, CHINA 610213

TEL: +86-28-64570369 FAX: +86-28-64570369

E-mail: sales@osemos.com http://www.osemos.com