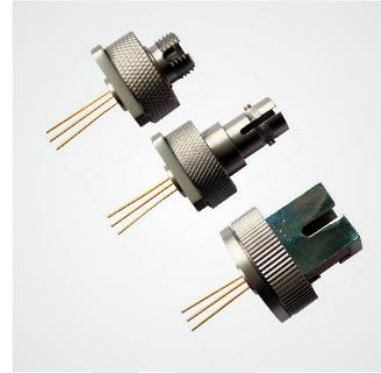


## High Saturation Pin-Diode With Receptacle (FC/SC/ST)

### OSMPDR-12FST

#### Features:

- Low Dark Current
- High Reliability
- High Linearity
- Receive Light Sensitive can be optional
- High Saturation Power
- Good identity for interface and receptacle



#### Application:

- Apply to vary power meter & instrument
- Apply to optical receiver for special requirement
- CATV Forward/Return Path
- PON
- FTTH Network
- HFC

#### Absolute Maximum Ratings:

Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	$T_{ST}$	-40	100	$^{\circ}C$
Operating Temperature	$T_{OP}$	-40	85	$^{\circ}C$
Reverse Voltage	VR	---	20	V
Saturation Input Power	$P_{IN}$	---	10	dBm
Soldering Temperature / Time	$T_s/t$	---	260/10	$^{\circ}C/s$

#### Electrical and Optical Characteristics:

( $V_r=5V$ , SMF (9.5/125 $\mu m$ ),  $T_c=+25^{\circ}C$ , unless otherwise noted.)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Detection Wavelength Range	$\lambda$	---	1100	-	1650	nm
Active Diameter	DA	---	-	75	---	$\mu m$
Responsivity	R	VR=-5V@1310nm	0.80	0.85	---	A/W
		VR=-5V@1550nm	0.85	0.90	---	A/W
Return Loss	RL	---	---	-	-45	dB
Dark Current	$I_d$	VR = 5V	---	0.1	1	nA
Capacitance	$C_p$	VR = 5V	---	0.6	1	pF
Transmitting Rate	BW	VR=5V	---	1.25	2.5	G