

InGaAs PIN PD MODULES

PD-1300

InGaAs PIN PHOTODIODE WITH GI-50 MULTI-MODE PIGTAIL

FEATURES

- ◇ High responsivity for dual windows at 1310 nm and 1550 nm
- ◇ Low dark current
- ◇ Quick pulse response
- ◇ Coaxial Module with GI-50 (50/125 μm) Multi-Mode Fiber

APPLICATION

SDH, ATM, LAN

DESCRIPTION

PD-1300 is designed for coupling a GI-50 multi-mode fiber with high reliable InGaAs PIN photodiodes. PD-1300 is specially designed as detector for Datacom and Telecom application.

ELECTRICAL AND OPTICAL CHARACTERISTICS (Tc=25°C)						
Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
	Detection Range	λ	1100	-	1650	nm
R	Responsivity	VR=5V, $\lambda=1300\text{nm}$ $\lambda=1550\text{nm}$	0.8 0.8	0.85 0.90	-	A/W
Idark	Dark Current	VR=5V		0.3	0.7	nA
C	Capacitance	VR=5V		0.7	1.0	pF
Tr/Tf	Rise/Fall Time	VR=5V, 10~90%			0.3	ns
BW	Bandwidth	VR=5V	2			GHz

Absolute Maximum Ratings (Tc=25 °C)			
Symbol	Parameter	Ratings	Unit
Po	Input Optical Power	10	mW
VRD	PD Reverse Voltage	20	V
IFD	PD Forward Current	10	mA
Topr	Operating Temperature	-40~+85	°C
Tstg	Storage Temperature	-40~+85	°C

Revision History

Version	Subject	Release Date
1.0	Initial datasheet	2002/1/3