



High Speed Fiber Pigtailed InGaAs p-i-n Photodiode

13PD100-F

The 13PD100-F is an InGaAs photodiode with a 100 μ m-diameter photosensitive region packaged in a co-axial fiber pigtailed module. Modules are available with stock or customer-supplied fiber in single or multi-mode versions. The coaxial package offers streamlined design and strain-relief for the fiber. Planar semiconductor design and dielectric passivation provide superior noise performance. Reliability is assured by hermetic sealing and a 100% purge burn-in (200°C, 15 hours, $V_r = 15V$). A low backreflection (-LBR) option is available.

Features

Planar Structure
Dielectric Passivation
100% Purge Burn-In
High Responsivity

Device Characteristics					
Parameters	Test Conditions	Min	Typ	Max	Units
Operating Voltage	-	-	-	-20	Volts
Dark Current	-5V	-	0.5	2	nA
Capacitance	-5V	-	1.15	1.9	pF
Responsivity	1300nm	0.65	0.80	-	A/W
Rise/Fall	-	-	-	0.5	ns
Frequency Response	(-3dB)	-	1.0	-	GHz
Backreflection (STD)			-20		dB
(LBR)			-55		dB
Absolute Maximum Ratings					
Reverse Voltage					30 Volts
Forward Current					5 mA
Reverse Current					500 μ A
Operating Temperature					-40°C to + 85°C
Storage Temperature					-40°C to + 85°C
Soldering Temperature					250°C