

Product Brief

APPLICATIONS

- RF Photonic Links
- Photonic RF Generation
- Sensing
- Communications

FEATURES

- Up to 100mW Input
- Compact, low-profile package
- Single-mode fiber
- 35 GHz bandwidth

DESCRIPTION

Freedom Photonics' FP1015b is designed for high power applications with up to 100mW input optical power. It can be packaged into a compact, low-profile package with a 35 GHz small-signal 3-dB bandwidth.

The photodiode has been developed for demanding high optical power applications such as RF photonic links, sensing applications or photonic generation of RF signal power up to 17 dBm and frequencies up to 35 GHz.

SPECIFICATIONS

Parameter	min	typ	max	unit
Bias Voltage		-5	-8	V
Operating Wavelength		1550		nm
Responsivity	0.35	0.4		A/W
Bandwidth	30	35		GHz
Output RF Power (P1-dB) @ 10 GHz	17	19		dBm
Current at P1-dB	50	57		mA
Operating Temperature	-40		75	°C
Storage Temperature	-40		85	°C
Fiber Connection				Single-mode SF28 fiber

