

## Product Brief

### APPLICATIONS

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

### FEATURES

- Up to 200mW Input
- Compact, low-profile package
- Single-mode fiber
- 22 GHz bandwidth

### DESCRIPTION

Freedom Photonics' FP1015a is designed for high power applications with up to 200mW input optical power. It can be packaged into a compact, low-profile package with a 22 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 20 dBm and frequencies up to 22 GHz.

### SPECIFICATIONS

Parameter	min	typ	max	unit
Bias Voltage		-5	-8	V
Operating Wavelength		1550		nm
Responsivity	0.35	0.4		A/W
Bandwidth	20	22		GHz
Output RF Power (P1-dB) @ 10 GHz	20	22		dBm
Current at P1-dB	90	100		mA
Operating Temperature	-40		75	°C
Storage Temperature	-40		85	°C
Fiber Connection	Single-mode SF28 fiber			

