

## Product Brief

### APPLICATIONS

- Sensing
- Communications

### FEATURES

- Monolithically integratable
- Custom CMOS designs
- 5 GHz Bandwidth
- 0.3 A/W Responsivity
- 850nm Operating wavelength

### DESCRIPTION

Freedom Photonics' FP1017a Si APDs are designed for CMOS processes and thus can be monolithically integrated with ROICs and other electronics. These Si APDs can be designed as standalone devices or in arrays.

### SPECIFICATIONS

Parameter	min	typ	Max	unit
Device Diameter		20		$\mu\text{m}$
Operating Wavelength		850		nm
Responsivity @M=1, $\lambda=850\text{nm}$		0.25	0.3	A/W
Bandwidth	2	3		GHz
Breakdown Voltage		13.5		V
Dark Current at -10V		50		pA

