

















## J-SERIES SIPM

### JSiPM

JSiPMTToF-PETJPDE50%UV50 kHz/mm<sup>2</sup>CMOS±250 mV J3 mm4 mm6 mmTSVJ

- High-density microcells
- J-Series sensors feature ON Semiconductor's unique 'fast output' terminal
- Temperature stability of 21.5 mV/°C
- Exceptional breakdown voltage uniformity of ±250 mV
- Available in a reflow solder compatible TSV chip-scale package
- Ultra-low dark count rates of 50 kHz/mm<sup>2</sup> typical
- Optimized for high-performance timing applications, such as ToF-PET
- 3 mm, 4 mm and 6 mm sensor sizes
- Bias voltage of <30 V
- Results in a 50% photon detection efficiency (PDE) at 420 nm
- Improved signal rise time and the microcell recovery time
- Negates the need for active voltage control
- Industry-leading uniformity
- TSV package results in almost zero deadspace allowing the creation of high fill factor arrays and is ferrous-metal free
- Medical Imaging
- Hazard & Threat
- 3D Ranging & Sensing
- Biophotonics & Sciences
- High Energy Physics

	Pricing (\$/Unit)	Compliance	Status	Type	Array Format	Active Area Dimensions	Microcell Size (μm)	Optimized Wavelength (nm)	PDE @ Max Overvoltage (%)	DCR @ Typical Overvoltage (kHz/mm)	Package Type
MICROFJ-30020-TSV-TR		 	Active	Single		3 mm x 3 mm	20	420	38	50	ODCSP-8
MICROFJ-30020-TSV-TR1		 	Active	Single		3 mm x 3 mm	20	420	38	50	ODCSP-8
MICROFJ-30035-TSV-TR		 	Active	Single		3 mm x 3 mm	35	420	50	50	ODCSP-8
MICROFJ-30035-TSV-TR1		 	Active	Single		3 mm x 3 mm	35	420	50	50	ODCSP-8
MICROFJ-40035-TSV-TR		 	Active	Single		4 mm x 4 mm	35	420	50	50	ODCSP-16
MICROFJ-40035-TSV-TR1		 	Active	Single		4 mm x 4 mm	35	420	50	50	ODCSP-16
MICROFJ-60035-TSV-TR		 	Active	Single		6 mm x 6 mm	35	420	50	50	ODCSP-36
MICROFJ-60035-TSV-TR1		 	Active	Single		6 mm x 6 mm	35	420	50	50	ODCSP-36