FCI-InGaAs-36C 10Gbps InGaAs Photodiode

OSI Optoelectronics's FCI-InGaAs-36C is an OC-192 (SONET/SDH) capable photosensitive device, exhibiting low dark current and good performance stability.

Both Anode and Cathode contacts appear on the chip's top facet. And it makes ideal component in high-speed optical data transport applications at 10Gbps, responding to a spectral envelop that spans from 910nm to 1650nm.

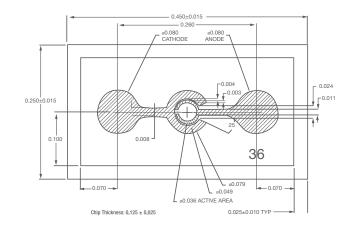
APPLICATIONS

Optical Networking

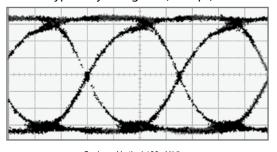
• Optical Measurement

• OC-192

- High Speed Optical Communications
- **FEATURES** • High Speed, 10 Gbps Data Rates
- Iow Dark Current
 - Front Illuminated
 - High Responsivity, Typ. 0.8 A/W
 @1550nm
 - Diameter of Light Sensitive area 36µm
 - Low Capacitance



Typical Eye Diagram (10Gbps)⁽¹⁾



Scale: Vertical 100mV/div Horizontal 20.0 ps/div

Electro-Optical Characteristics T _A =						
PARAMETERS	SYMBOL	CONDITIONS	MIN	ТҮР	мах	UNITS
Sensing Area Diameter	AA _o			36		μm
Chip Size				450 x 250		µm x µm
Responsivity	R _λ	λ=1310nm	0.8	0.85		A/W
		λ=1550nm	0.75	0.8		
Capacitance	Cj	V _R =5V		0.16	0.2	pF
Dark Current	I _d	V _R =5V		0.5	2	nA
Breakdown Voltage	V _b	I _R =1µA	20			v
Bandwidth				9		GHz

(1) Measured with a TIA. Currently FCI-InGaAs-36C is offered in die form only.



info@amstechnologies.com www.amstechnologies-webshop.com

