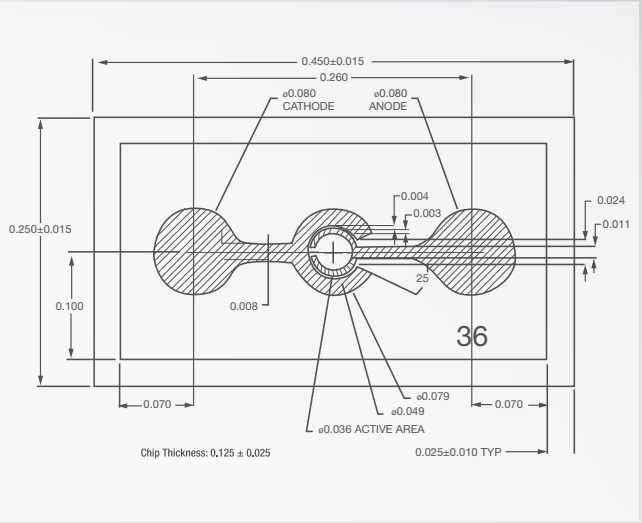
FCI-InGaAs-36C

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.



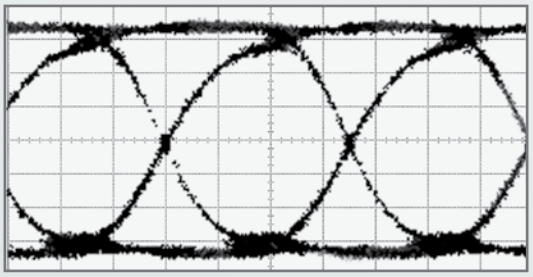
APPLICATIONS

- High Speed Optical Communications
- OC-192
- Optical Networking
- Optical Measurement

FEATURES

- High Speed, 10 Gbps Data Rates
- low 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=23°C
PARAMETERS	**SYMBOL**	**CONDITIONS**	**MIN**	**TYP**	**MAX**	**UNITS**
Sensing Area Diameter	AA_ϕ	---	---	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	C_j	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.