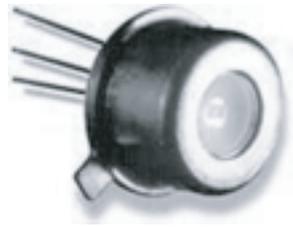


High Speed InGaAs p-i-n Photodiode

Sheet 1 of 3

13PD75-T0

The 13PD75-T0, an InGaAs photodiode with a 75 μ m-diameter photosensitive region packaged in a TO-46 header, is intended for high speed and low noise applications. The diameter of the photosensitive region is sufficiently small to enable operation at low dark current and low capacitance and yet large enough to allow efficient coupling to multi-mode fiber. Planar semiconductor design and dielectric passivation provide very low noise performance. Reliability is assured by hermetic sealing and 100% purge burn-in (200°C, 15 hours, Vr = 20V). Headers are available with either a lensed or flat window cap. Chips can also be attached and wire bonded to customer-supplied or other specified packages.



Features:

- Planar Structure
- Dielectric Passivation
- 100% Purge Burn-in
- High Responsivity

DEVICE CHARACTERISTICS

Parameters	Test Conditions	Minimum	Typical	Maximum	Units
Operating Voltage				-20	Volts
Dark Current	-5V		0.2	2	nA
Capacitance	-5V		0.7	0.9	pF
Responsivity	1300nm	0.8	0.9		A/W
Rise/Fall				0.5	ns
Frequency Response	(-3dB)		1.5		GHz

ABSOLUTE MAXIMUM RATINGS

Reverse Voltage	30 Volts
Forward Current	10mA
Reverse Current	5mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Soldering Temperature	250°C

Sheet 1 of 3

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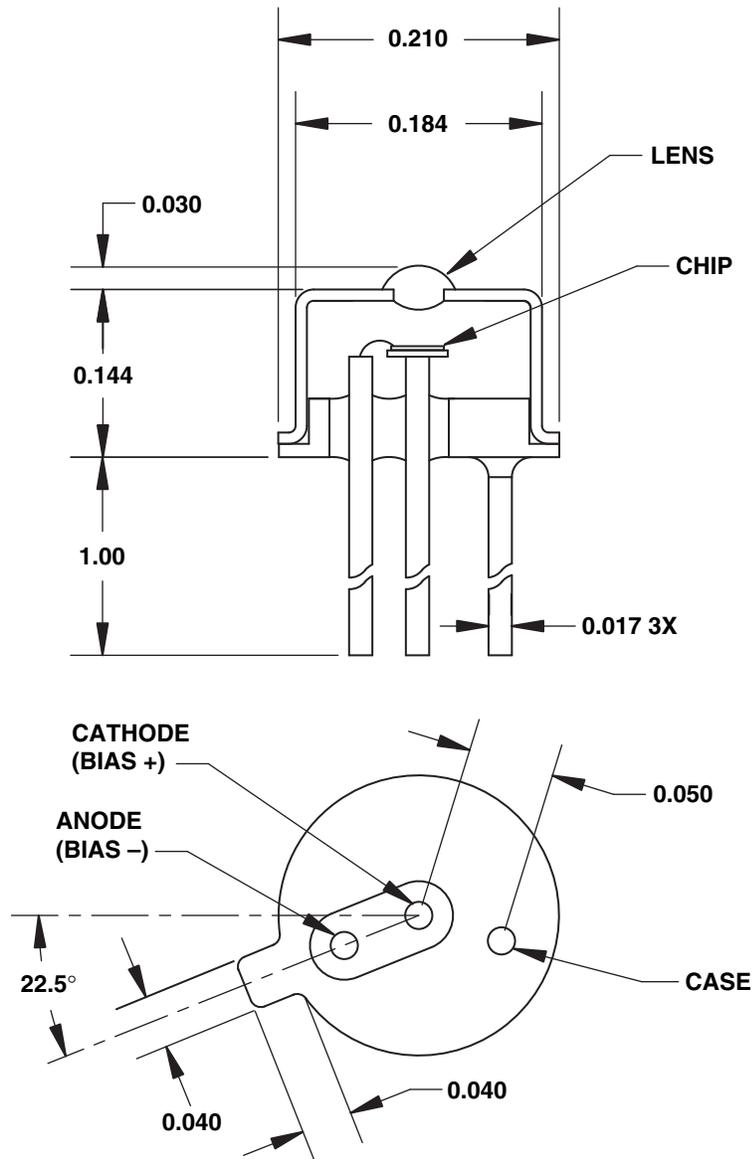


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Mechanical Specifications TO-46 Header Packages

Sheet 2 of 3

Standard TO-46 Lens



Custom packaging is also available.

Sheet 2 of 3

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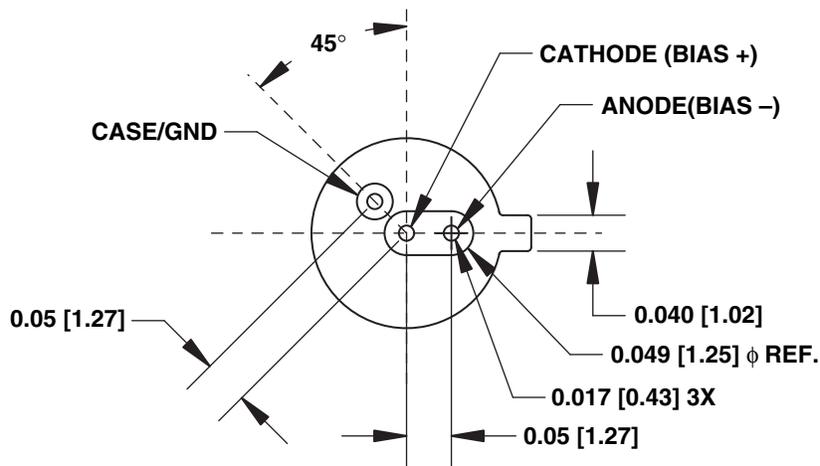
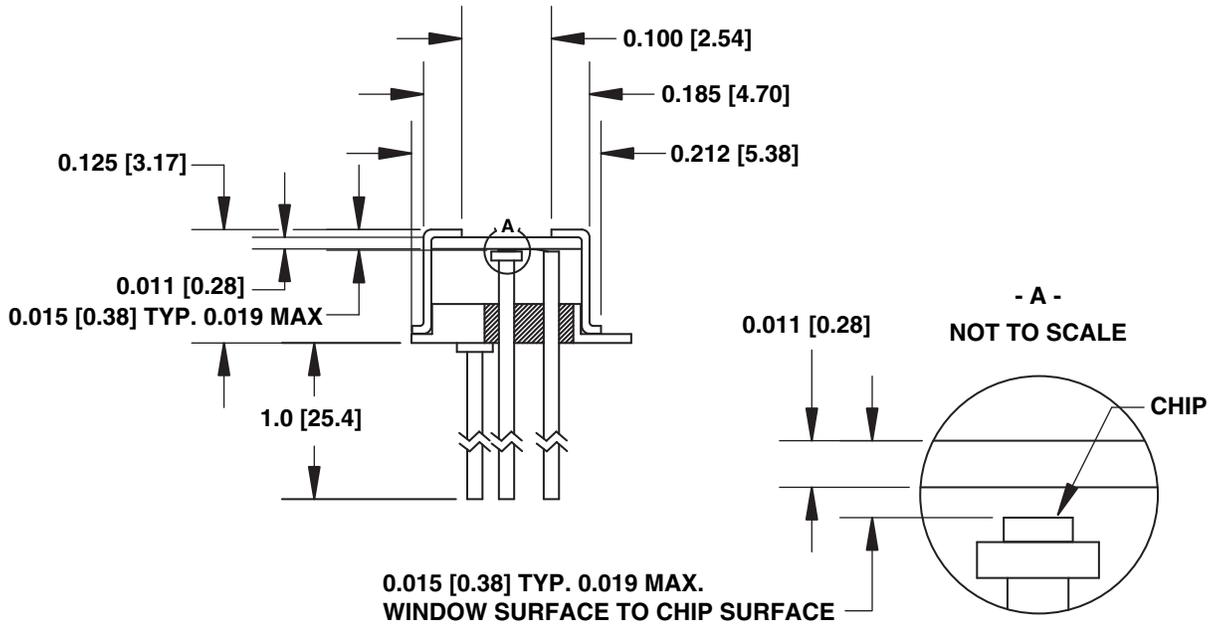


Mechanical Specifications

TO-46 Header Packages

Sheet 3 of 3

TO-46 Ultra Flat Window



Custom packaging is also available.

Sheet 3 of 3

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