

All Purpose InGaAs p-i-n Photodiode

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35PD300-FC

The 35PD300-FC, an InGaAs photodiode with a 300 μ m-diameter photosensitive region packaged in a TO-46 header and actively aligned in a FC active device mount. This device is one of Telcom Devices' most versatile optoelectronic components designed for applications in high sensitivity instrumentation, and moderate-bit-rate fiberoptic communications. Planar semiconductor design and dielectric passivation provide superior performance. Reliability is assured by hermetic sealing and 100% purge burn-in (200°C, 15 hours, Vr = 20V). Devices with enhanced responsivity at 850nm are available.



Features:

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

DEVICE CHARACTERISTICS

| Parameters | Test Conditions | Minimum | Typical | Maximum | Units |
|--------------------|-----------------|---------|---------|---------|-------|
| Operating Voltage | | | | -15 | Volts |
| Dark Current | -5V | | 1 | 10 | nA |
| Capacitance | -5V | | 4 | 12 | pF |
| Responsivity | 1300nm | 0.7 | 0.9 | | A/W |
| Rise/Fall | | | | 3 | ns |
| Frequency Response | (-3dB) | | 300 | | MHz |

ABSOLUTE MAXIMUM RATINGS

| | |
|-----------------------|----------------|
| Reverse Voltage | 20 Volts |
| Forward Current | 25mA |
| Reverse Current | 5mA |
| Operating Temperature | -40°C to +85°C |
| Storage Temperature | -40°C to +85°C |
| Soldering Temperature | 250°C |

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