



10Gbps 1310nm PIN-TIA TO-CAN Series

Features:

- Suitable for long wavelength 10Gbps applications.
- Single +3.3V Power Supply.
- Photo current monitoring available.
- InGaAs PIN Detector and TIA inside.
- -40°C to 85°C Operation.
- Received signal strength indicator(RSSI).
- High reliability.

Applications:

- High speed Data Communication.

Specifications:

Absolute Maximum Ratings:

| Parameter | Symbol | Min. | Max. | Unit |
|-------------------------|----------|------|------|------|
| Optical Input Power | P_{in} | — | 2 | dBm |
| Operating Temperature | Top | -40 | +85 | °C |
| Storage Temperature | Tstg | -40 | +85 | °C |
| Lead Solder Temperature | — | — | 260 | °C |
| Lead Solder Time | — | — | 10 | s |

Characteristics: (Ta=25°C unless otherwise noted)

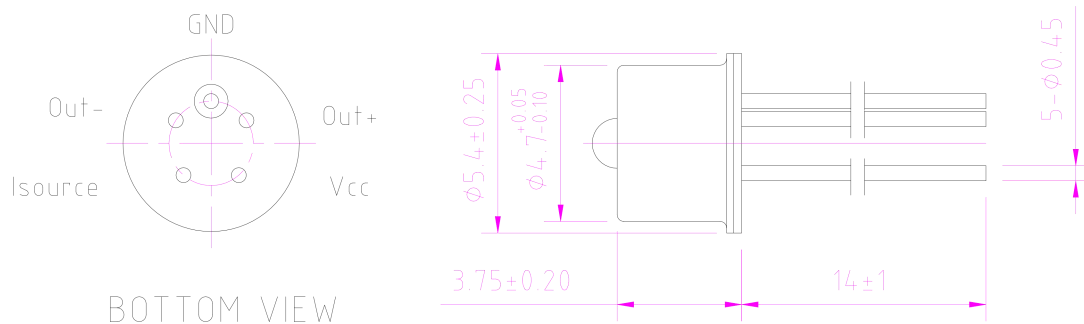
| Parameter | Symbol | Test Conditions | Min. | Typ. | Max. | Unit |
|---------------------|-----------|---|------|------|-------|------|
| Supply Voltage | Vcc | — | 3.0 | 3.3 | 3.6 | V |
| Supply Current | Icc | Vcc=3.3V | — | — | 35 | mA |
| Wavelength Range | λ | Vcc=3.3V | 1260 | — | 1600 | nm |
| RSSI Offset Current | Id | Vcc=3.3V | — | — | 150 | nA |
| Overload | OL | Vcc=3.3V | 0 | — | — | dBm |
| Sensitivity | Sen | 10.3125Gbps, PRBS31, 1310nm,ER=6dB, BER=10E-12 | — | — | -17.5 | dBm |



Key Materials

| Materials | Part Number |
|-----------|-------------|
| PIN PD | 0001020206 |
| TIA | 0000090072 |

Mechanical Dimension and Pin Assignment:



Order Information:

PT10G 1310 — — — —

| | | | |
|-----------------------------|-----------------------------------|--------------------------------|-------------------------------------|
| <u>Header Type:</u> TO46 | <u>Cap Type:</u> BL: Ball Lens | <u>Numbers of Pin:</u> 5pin | <u>Pin Assignment:</u> D: Type D |
|-----------------------------|-----------------------------------|--------------------------------|-------------------------------------|

Statement:

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