

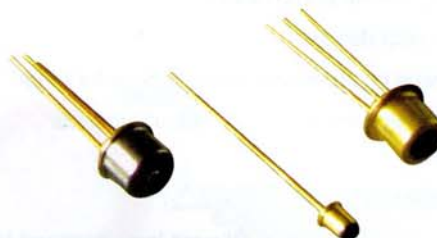
## InGaAs PIN Photodetectors

### Features:

- Low noise, low dark current
- Low terminal capacitance
- Standard TO package, fiber pigtailed co-axial packages or in connector style receptacle packages available

### Applications:

- NIR (near infrared) photometry
- Optical communication



### Absolute Maximum Ratings

| PARAMETER                           | SYMBOL    | VALUE      | UNIT |
|-------------------------------------|-----------|------------|------|
| Operating Temperature               | $T_{op}$  | -40~+85    | °C   |
| Storage Temperature                 | $T_{stg}$ | -40 ~ +125 | °C   |
| Reverse Voltage                     | $V_r$     | 30         | V    |
| Lead Soldering Temperature(10 sec.) | $T_{is}$  | 260        | °C   |

| Specifications            | Testing condition | GCPD-1P0075 | GCPD-1P03 | Unit |
|---------------------------|-------------------|-------------|-----------|------|
| Sensitive Area            | -                 | Ø75         | Ø300      | µm   |
| Responsibility            | =1310nm           | ≥ 0.85      | ≥ 0.85    | A/W  |
|                           | =1550nm           | ≥ 0.90      | ≥ 0.90    |      |
| Response Spectrum         | -                 | 850~1700    | 850~1700  | nm   |
| Dark Current (Typical)    | $V_r=5V$          | ≤ 0.6       | ≤ 1       | nA   |
| Capacitance               | $V_r=5V$          | 0.4         | 5.0       | PF   |
| Rise / Fall time          | $V_r=5V$          | 0.3         | 1         | ns   |
| Bandwidth                 | 3dB               | 1.5         | 0.5       | GHz  |
| Saturation Power(Typical) | $V_r=5V$          | ≥ 2         | 2         | mW   |