



## Fiber Pigtailed Photodiode Array (FPDA Series)

Rev 11

The Fiber Pigtailed Photodiode Array (FPDA) is a compact, multi-channel power-detecting device. It obviously simplifies module design and assembling process by pre-integrating several single power detectors in one. It provides standard pins with 2.54 mm space to easily mount on PCB. It applies for channel power monitoring in DWDM system, in-line optical network switching protection monitoring (OLP), re-configurable optical add/drop multiplexer (OADM), and gain/attenuation monitoring in network's power detection.

### Specifications

| Parameter   | Condition       | Unit | Value                 |      |
|---|-----------------|------|-----------------------|------|
| Center Wavelength ( $\lambda_c$ )                   |                 | nm   | 1310                  | 1550 |
| Operating Wavelength Range ( $\lambda_{op}$ )       |                 | nm   | $\lambda_c \pm 50$ nm |      |
| Mini. Responsivity                                  |                 | A/W  | 0.75                  | 0.80 |
| Dark Current (@ 70°C, -5 v bias)                    | 0.5 G bandwidth | nA   | 8                     |      |
|   | 2.0 G bandwidth |      | 2                     |      |
| Responsivity Temperature Dependence ( $\lambda_c$ ) |                 | dB   | 0.3                   |      |
| Responsivity Polarization Dependence                |                 | dB   | 0.1                   |      |
| Return Loss   |                 | dB   | 40                    |      |
| Input Optical Power                                 |                 | mW   | 10*                   |      |
| Reverse Voltage                                     |                 | V    | 20*                   |      |
| Forward Current                                     |                 | mA   | 10*                   |      |
| Operating Temperature                               |                 | °C   | 0 to +70              |      |
| Storage Temperature                                 |                 | °C   | -40 to +85            |      |

\* Guaranteed by Photodiode

\* RL is 5 dB lower for each connector added.

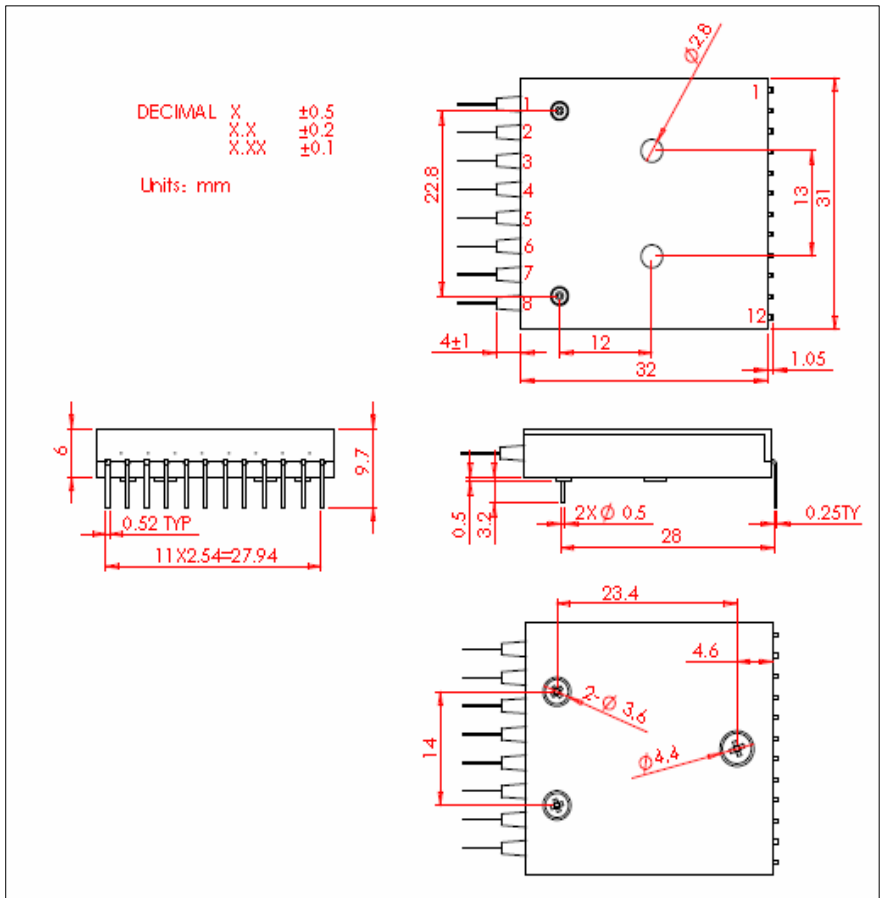
### Pin Assignment

#### Electrical Pin Assignment

| Pin#  | Common Cathode Assignment   | Common Anode Assignment   |
|-------|-----------------------------|---------------------------|
| pin1  | Common Cathode for Ch 1 & 2 | Common Anode for Ch 1 & 2 |
| pin2  | Anode Ch 1                  | Cathode Ch 1              |
| pin3  | Anode Ch 2                  | Cathode Ch 2              |
| pin4  | Common Cathode for Ch 3 & 4 | Common Anode for Ch 3 & 4 |
| pin5  | Anode Ch 3                  | Cathode Ch 3              |
| pin6  | Anode Ch 4                  | Cathode Ch 4              |
| pin7  | Anode Ch 5                  | Cathode Ch 5              |
| pin8  | Common Cathode for Ch 5 & 6 | Common Anode for Ch 5 & 6 |
| pin9  | Anode Ch 6                  | Cathode Ch 6              |
| pin10 | Anode Ch 7                  | Cathode Ch 7              |
| pin11 | Common Cathode for Ch 7 & 8 | Common Anode for Ch 7 & 8 |
| pin12 | Anode Ch 8                  | Cathode Ch 8              |



Package Dimensions



Ordering Information

FPDA-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦

①①: Channel Number  
 08-8 Channel

②②: Wavelength  
 55 - 1550 nm  
 31 - 1310 nm

③③: Bandwidth  
 05 - 0.5 G  
 20 - 2.0 G

④④: Package Type  
 1 - Common Cathode  
 2 - Common Anode

⑤⑤: Fiber Length  
 1 - 1.0 m

⑥⑥: Fiber Jacket  
 B - SMF-28 bare fiber  
 L - SMF-28 900 μm loose tube

⑦⑦: Connector Type  
 1 - FC/UPC  
 2 - FC/APC  
 3 - SC/UPC  
 4 - SC/APC  
 N - None  
 S - Specify