

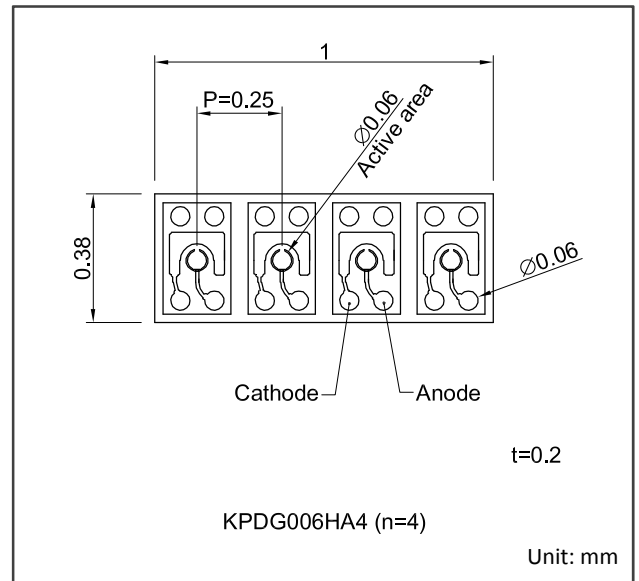
Features

- High speed
- Low dark current
- Large active diameter
- Flip-chip mountable

Applications

- High speed optical interconnection
- Fibre Channel

* KPDG006HAn (n: number of channels, n=1,2,4,8,12)



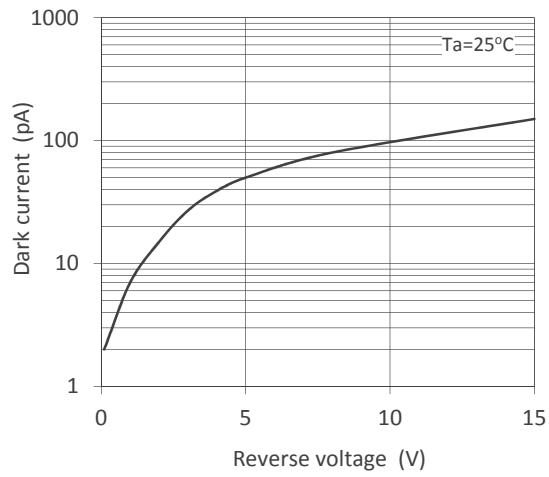
Absolute Maximum Ratings

| Parameter | Symbol | Value | Unit | Note |
|-----------------------|-----------|------------|------|------------------------|
| Reverse voltage | V_R | 15 | V | |
| Reverse current | I_R | 10 | mA | |
| Forward current | I_F | 5 | mA | |
| Operating temperature | T_{opr} | -40 to +85 | °C | Avoid dew condensation |
| Storage temperature | T_{stg} | -40 to +85 | °C | Avoid dew condensation |

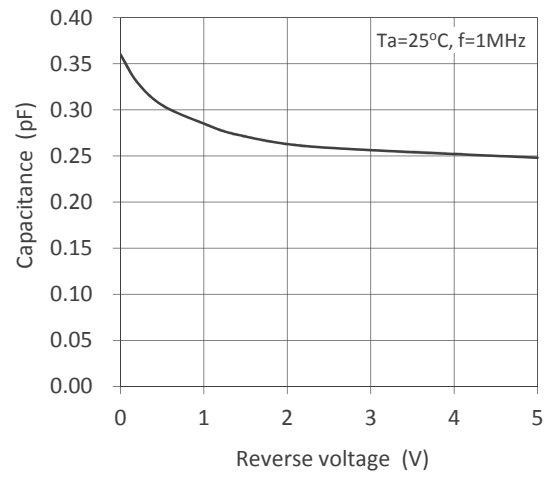
Electrical and Optical Characteristics (Ta=25°C unless otherwise noted)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|------------------|------------|------|------|------|---------------|---|
| Active diameter | D | 60 | | | μm | |
| Bandwidth | BW | 7.5 | 8.5 | - | GHz | $\lambda=850\text{nm}$, $P_{in}=-10\text{dBm}$ $R_L=50\Omega$, $V_R=2\text{V}$ |
| Responsivity | R | 0.45 | 0.5 | - | A/W | $\lambda=850\text{nm}$, $V_R=2\text{V}$ |
| Dark current | I_D | - | 30 | 100 | pA | $V_R=2\text{V}$ |
| Chip capacitance | C_{chip} | - | 0.26 | 0.36 | pF | $V_R=2\text{V}$, $f=1\text{MHz}$ |

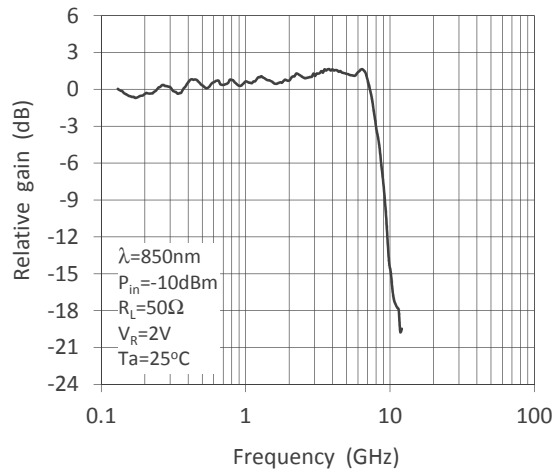
Dark Current - Reverse Voltage



Capacitance - Reverse Voltage



Frequency Response



- Specifications , characteristics, data, materials, structures specified in this datasheet are subject to change without notice. Please refer to the latest specification before use of the products.
- Products listed in this datasheet comply with the RoHS Directive (EU2002/95/EC).

Opto-technologies for the Future



KYOSEMI CORPORATION

<http://www.kyosemi.co.jp/>

Headquarters : 949-2 Ebisucho Fushimi-ku, Kyoto 612-8201 Japan

TEL: +81-75-605-7311

Tokyo Sales Office: 24th Sky Bldg.2F, 1-34-3 Shinjuku Shinjuku-ku, Tokyo 160-0022 Japan

TEL: +81-3-5312-5360

Kansai Sales Office: 949-2 Ebisucho Fushimi-ku, Kyoto 612-8201 Japan

TEL: +81-75-605-7311

Kyosemi Opto America Corp: 4655 Old Ironsides Suite 230 Santa Clara, California 95054 USA

TEL: +1-408-492-9361

Eniwa Operation: 385-31 Toiso Eniwa-shi, Hokkaido 061-1405 Japan

TEL: +81-123-34-3111

Kamisunagawa Operation: 70-1 Kamisunagawa Kamisunagawa-cho Sorachi-gun, Hokkaido 073-0200 Japan

TEL: +81-125-62-3611