

The OHDP30CA is a high-output, high-speed silicon photodiode, mounted in durable hermetically sealed T0-8F metal can package, which provides years of reliable performance even under demanding conditions such as use outdoors.

### FEATURES

- High-output power
- High-speed response
- Durable
- High reliability in demanding environments

### APPLICATIONS

- Infrared sensors
- Optical detectors
- Optical switches



### ELECTRO-OPTICAL CHARACTERISTICS

( Ta=25℃ )

| Item                           | Symbol | Cond.        | Min.      | Typ. | Max. | Unit |
|--------------------------------|--------|--------------|-----------|------|------|------|
| Open circuit voltage           | Voc    | Ev=1,000Lux  |           | 0.3  |      | V    |
| Short circuit current          | Isc    |              |           | 65.0 |      | μA   |
| Dark current                   | Id     | VR=10V       |           |      | 0.1  | μA   |
| Curve factor                   | C.F    |              | 0.55      |      |      | —    |
| Capacitance                    | Ct     | V=0V, f=1MHz |           | 155  |      | PF   |
| Temperature coefficient of Voc | α t    |              |           | -2.2 |      | mV/℃ |
| Temperature coefficient of Isc | β t    |              |           | 0.18 |      | %/℃  |
| Spectral sensitivity           | λ      |              | 450~1,050 |      |      | nm   |
| Peak wavelength                | λp     |              |           | 900  |      | nm   |
| Half angle                     | Δ θ    |              |           | ± 55 |      | deg. |

### MAXIMUM RATINGS

( Ta=25℃ )

| Item                           | Symbol | Rating   | Unit |
|--------------------------------|--------|----------|------|
| Reverse voltage                | VR     | 10       | V    |
| Operating temp.                | Topr.  | -25~+100 | ℃    |
| Storage temp.                  | Tstg.  | -30~+100 | ℃    |
| Soldering temp. <sup>(1)</sup> | Tsol.  | 260      | ℃    |

(1)For MAX.5seconds at the position of 2mm from the package

