

Low Series Resistance Photodiodes

Series 4



Special characteristics

- low dark current
- high sensitivity
- low series resistance

Application
Optimized
Solutions

General ratings

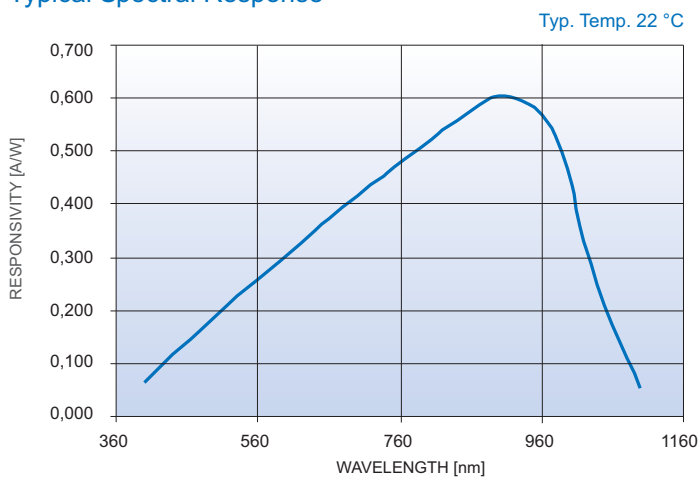
| Type No. | | Order number | Active area | | Dimensional outline | Absolute maximum ratings | |
|----------|---------|--------------|-------------|-------------------------|---------------------|--------------------------|--------------------|
| Chip | Package | | Size (mm) | Area (mm ²) | Window material | Operating temperatur | Storage temperatur |
| PC20-4 | TO8 | 500478 | ∅ 5.05 | 20 | clear glass | -40 ... +100 °C | -55 ... +125 °C |
| PC100-4 | BNC | | ∅ 11.3 | 100 | | +15 ... +60 °C | -15 ... +80 °C |

Electrical and optical characteristics (Typical values at 22 °C)

| Type No | Spectral Responsivity at 900 nm (A/W) | Dark current at 10 V (nA) | Capacitance at 0 V (nF) | Rise time at 10 V, 900 nm, 50 Ω (ns) | Shunt Resistance (Ω) | N.E.P (W/Hz ^{1/2}) |
|-------------|--|------------------------------|----------------------------|---|-------------------------|---------------------------------|
| PC20-4 TO8 | typ. 0.6 | 0.2 | 1.0 | 250 | < 30 | 2* 10 ⁻¹⁴ |
| PC100-4 BNC | | 2.0 | 2.0 | 500 | < 10 | 5* 10 ⁻¹⁴ |

RoHS compliant

Typical Spectral Response



Silicon Sensor GmbH

Low Series Resistance Photodiodes - Series 4

Standard packages

