

OD3.5-6 SO8

OD3.5-7 SO8

Surface mount single-axis PSD

Special characteristics:

single axis position sensing detectors (PSD)
active area 3.5 x 1 mm
high position resolution and
high linearity



specifications at 22°C

Parameters:	OD3.5-6	OD3.5-7
Active Area	3.5 mm ² 3.5 mm x 1 mm	3.5 mm ² 3.5 mm x 1 mm
Dark Current at 10 V	typ. 6.5 nA max. 10.0 nA	typ. 6.5 nA max. 10.0 nA
Total Capacitance at 10 V	15 pF	7 pF
Spectral Responsivity at 633 nm at 850 nm	0.4 A/W 0.59 A/W	0.4 A/W 0.62 A/W
Rise Time ¹⁾ at 10 V, 50 Ω, 865 nm	0.2 μs / 0.2 μs	0.2 μs / 0.2 μs
Interelectrode Resistance at E = 0 lx	50 +/- 20 kΩ	35 +/- 10 kΩ
Noise Limited Resolution ²⁾ at 632 nm, 0.5 μW	0.05 μm	0.05 μm
Position Detection Error ³⁾ at 632 nm	typ. +/- 0.2% max. +/- 1%	typ. +/- 0.2% max. +/- 1%
Breakdown Voltage	35 V	15 V
Operating Temperature	-25 ... +85 °C	-25 ... +65 °C

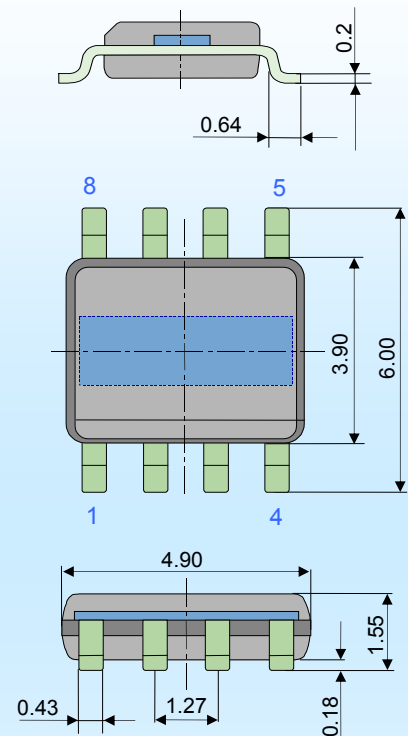
measurement conditions:

¹⁾ $U_{bias} = 10\text{ V}$, 50 Ω, 865 nm, central spot position

²⁾ 632 nm, 0.5 μW, spot diameter 0.5 mm

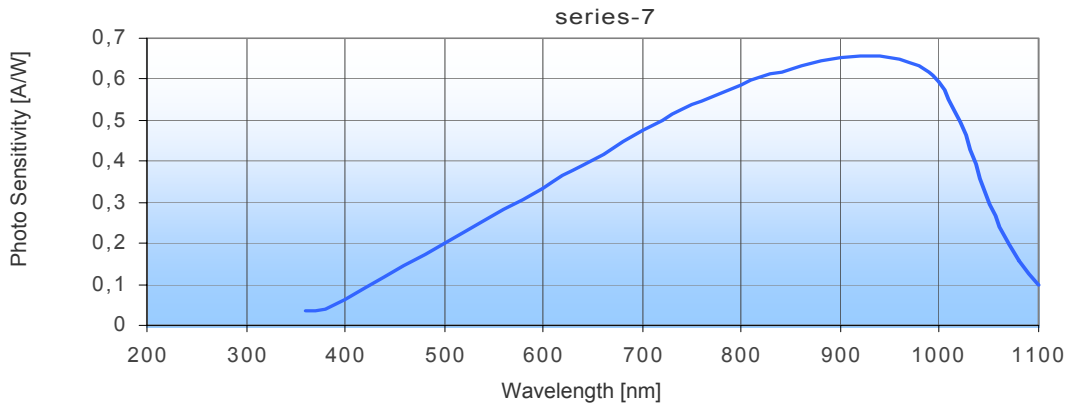
³⁾ within the scan range spot diameter 0.5 mm, 632 nm
RoHS compliant

Package (SO8):

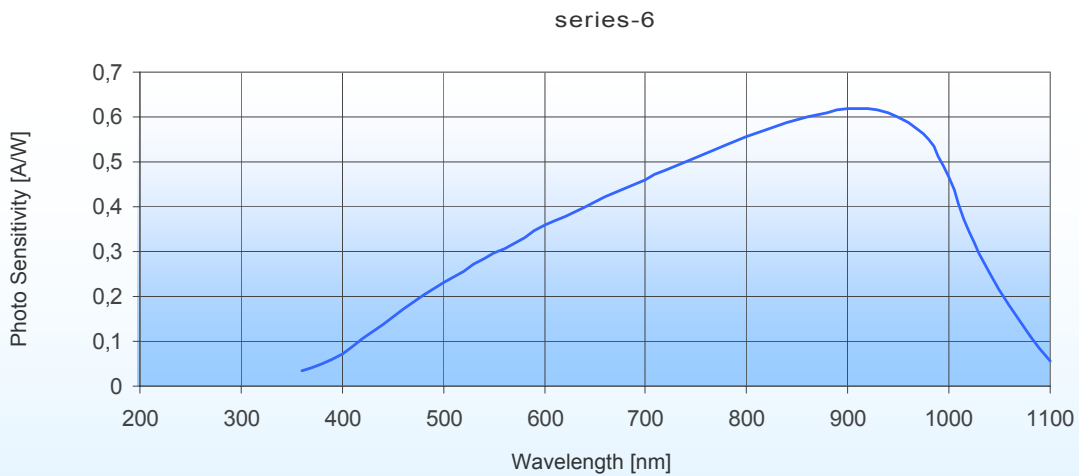


Pin no.	Function
1	Anode 1
4	Cathode (Common)
5	Anode 2
8	Cathode (Common)

Spectral responsivity (A/W)



Spectral responsivity (A/W)



Applications

- distance measurement (triangulation)
- optoelectronic displacement transducer
- proximity sensor

Germany :

Silicon Sensor GmbH

Ostendstr. 1
12459 Berlin
Germany
Phone: +49 (0)30-63 99 23 10
Fax: +49 (0)30-63 99 23 33
E-Mail: sales@silicon-sensor.de

International Sales:

Silicon Sensor GmbH

U.K. Office
35 Orchard Close
Stanstead Abbots, Ware
Hertfordshire SG 12 8 AH
Phone/Fax: +44 (0)1920/87 20 90
E-Mail: p.nash@silicon-sensor.com

U.S.A. :

Pacific Silicon Sensor, Inc.

5700 Corsa Avenue #105
Westlake Village
CA 91362 USA
Phone: +1-818-706-3400
Fax: +1-818-889-7053
E-Mail: sales@pacific-sensor.com

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