

FEATURES

- 10 mm square active area
- Low dark current
- Long term stability
- Ultra blue enhanced

DESCRIPTION

100 mm² Low Dark Current Photodiode with P on N construction. Packaged in a black ceramic header with a clear epoxy encapsulant. Also available with a fused silica window.

APPLICATIONS

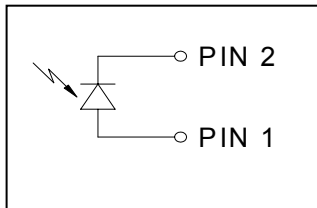
- Precision photometry
- Analytical instruments
- Medical equipment



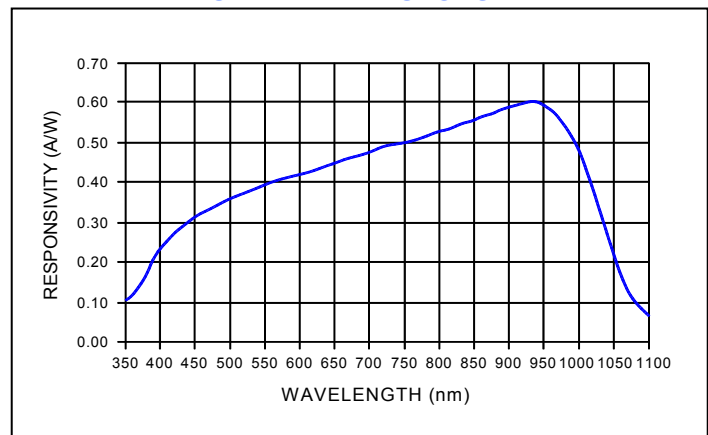
ABSOLUTE MAXIMUM RATING

SYMBOL	PARAMETER	MIN	MAX	UNITS
T _{STG}	Storage Temp	-20	+80	°C
T _{OP}	Operating Temp	-20	+60	°C
V _{R(OP)}	Reverse Operating Voltage	-	50	V
I _(PEAK)	Peak DC Current	-	10	mA

SCHEMATIC



SPECTRAL RESPONSE



ELECTRO-OPTICAL CHARACTERISTICS @ 22° C

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
R _{SH}	Shunt Resistance	V _R = ±10 mV	100	250	---	MΩ
I _D	Dark Current	V _R = 5 V	---	1.5	2.0	nA
C	Capacitance	V _R = 0 V	---	720	---	pF
		V _R = 5 V	---	275	300	
	Responsivity	V _R = 0 V; λ = 410 nm	---	0.22	---	A/W
		V _R = 0 V; λ = 550 nm	---	0.37	---	
NEP	Noise Equivalent Power	V _R = 10 V; λ = 410 nm; R _L = 50 Ω	---	5.8 X 10 ⁻¹⁴	---	W/Hz ^{1/2}
V _{BR}	Breakdown Voltage	I _R = 10 μA	50	---	---	V
t _r	Rise Time	V _R = 5 V; λ = 410 nm; R _L = 50 Ω	---	200	---	ns

Disclaimer: Due to our policy of continued development, specifications are subject to change without notice.

USA:

Pacific Silicon Sensor, Inc.
5700 Corsa Avenue, #105
Westlake Village, CA 91362 USA
Phone (818) 706-3400
Fax (818) 889-7053
Email: sales@pacific-sensor.com
www.pacific-sensor.com

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International sales:

Silicon Sensor International AG
Peter-Behrens-Str. 15
D-12459 Berlin, Germany
Phone +49 (0)30-63 99 23 10
Fax +49 (0)30-63 99 23 33
Email: sales@silicon-sensor.de
www.silicon-sensor.de

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