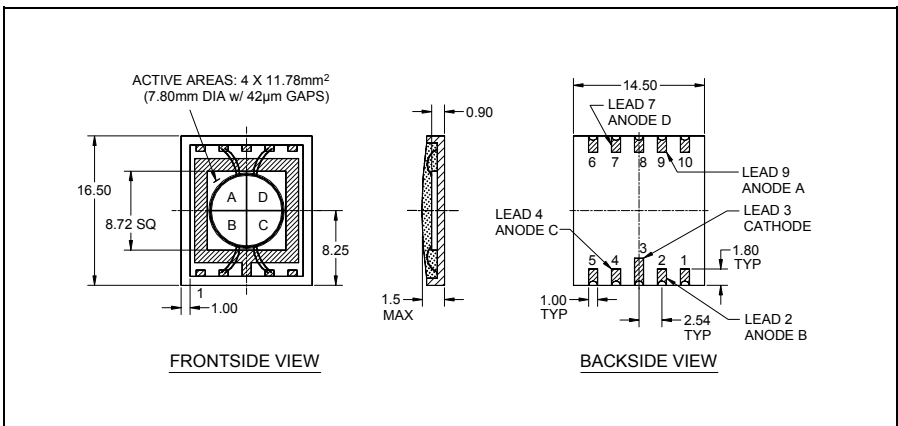
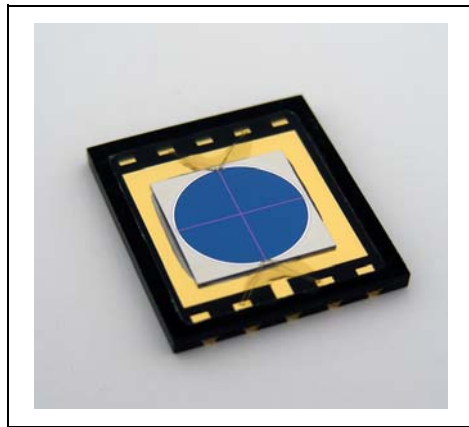




FEATURES

- $\varnothing$ 7.80 mm active area
- Small gap
- Low dark current
- High resolution

DESCRIPTION

4 X 11.78 mm² Low Dark Current Quadrant Photodiode with P on N construction and 42 μ m gaps. Surface mount packaged with clear epoxy encapsulant.

APPLICATIONS

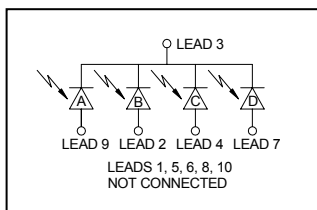
- Laser beam position sensor
- Autocollimators
- Optical tweezers
- Ellipsometers



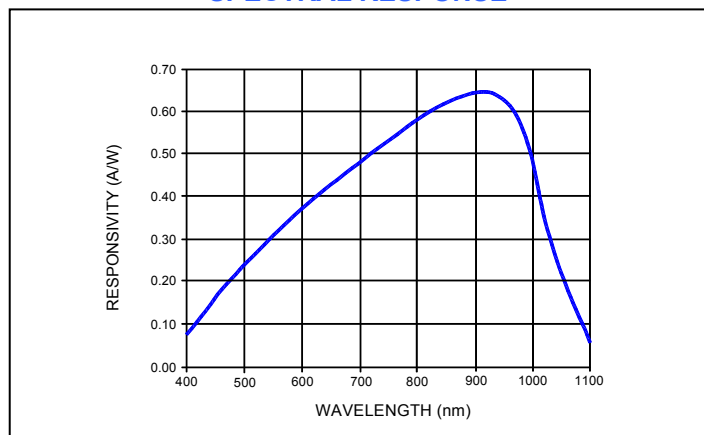
ABSOLUTE MAXIMUM RATING

SYMBOL	PARAMETER	MIN	MAX	UNITS
T _{STG}	Storage Temp	-15	+80	°C
T _{OP}	Operating Temp	-15	+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
I _D	Dark Current*	V _R = 10 V	---	2.0	---	nA
C	Capacitance*	V _R = 10 V	---	---	25.0	pF
	Responsivity	V _R = 0 V; λ = 633 nm	---	0.40	---	A/W
		V _R = 0 V; λ = 900 nm	---	0.64	---	
V _{BR}	Breakdown Voltage	I _R = 10 μ A	---	15	---	V
t _r	Rise Time	V _R = 10 V; λ = 850 nm; R _L = 50 Ω	---	40	---	ns
	Uniformity of Sensitivity	V _R = 10 V; λ = 880 nm	---	±1	±2	%

* per element

Disclaimer: Due to our policy of continued development, specifications are subject to change without notice.
Package is not suitable for reflow soldering.

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

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

Proud Members of the Silicon Sensor International AG Group of companies

9/24/2010

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

First Sensor:

[QP50-6-SM](#)