

### FEATURES

- 8.0 mm X 10.0 mm active area
- Low capacitance
- Long term stability
- High NIR sensitivity

### DESCRIPTION

80.0 mm<sup>2</sup> Low Capacitance PIN Photodiode. Surface mount packaged with clear epoxy encapsulant.

### APPLICATIONS

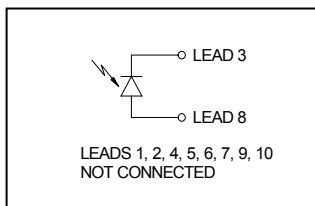
- Laser detection
- Instrumentation
- Optical remote control
- Pulsed light sensor



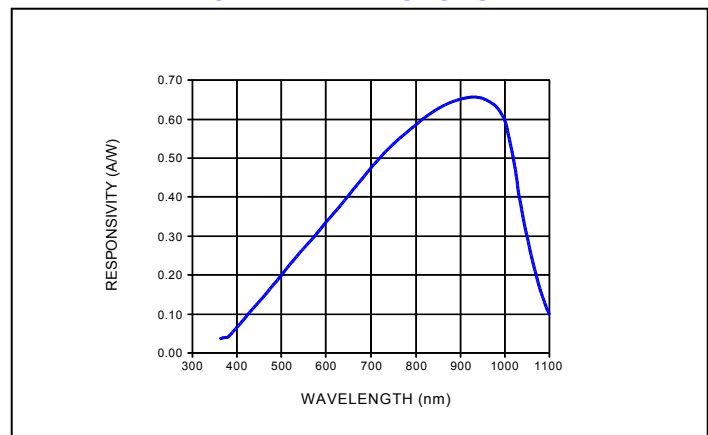
### ABSOLUTE MAXIMUM RATING

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

### SCHEMATIC



### SPECTRAL RESPONSE



### ELECTRO-OPTICAL CHARACTERISTICS @ 22° C

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I <sub>D</sub>	Dark Current	V <sub>R</sub> = 12 V	---	0.4	---	nA
C	Capacitance	V <sub>R</sub> = 12 V	---	65	---	pF
	Responsivity	V <sub>R</sub> = 0 V; λ = 950 nm	---	0.65	---	A/W
		V <sub>R</sub> = 0 V; λ = 1064 nm	---	0.20	---	
NEP	Noise Equivalent Power	V <sub>R</sub> = 12 V; λ = 850 nm; R <sub>L</sub> = 50 Ω	---	2.4 X 10 <sup>-14</sup>	---	W/Hz <sup>1/2</sup>
V <sub>BR</sub>	Breakdown Voltage	I <sub>R</sub> = 10 μA	30	---	---	V
t <sub>r</sub>	Rise Time	V <sub>R</sub> = 12 V; λ = 850 nm; R <sub>L</sub> = 50 Ω	---	50	---	ns

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](mailto:sales@pacific-sensor.com)  
[www.pacific-sensor.com](http://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](mailto:sales@silicon-sensor.de)  
[www.silicon-sensor.de](http://www.silicon-sensor.de)