

### FEATURES

- 4.90 mm square active area
- Low capacitance
- Long term stability
- High NIR sensitivity

### DESCRIPTION

24.0 mm<sup>2</sup> Low Capacitance PIN Photodiode. Hermetically packaged in a TO-8 with a clear borosilicate glass window cap. Also available with three pin isolated case package.

### APPLICATIONS

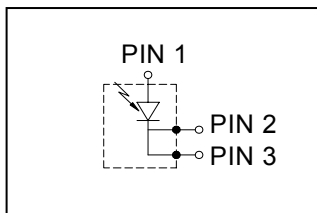
- Laser detection
- Instrumentation
- Optical remote control
- Pulsed light sensor



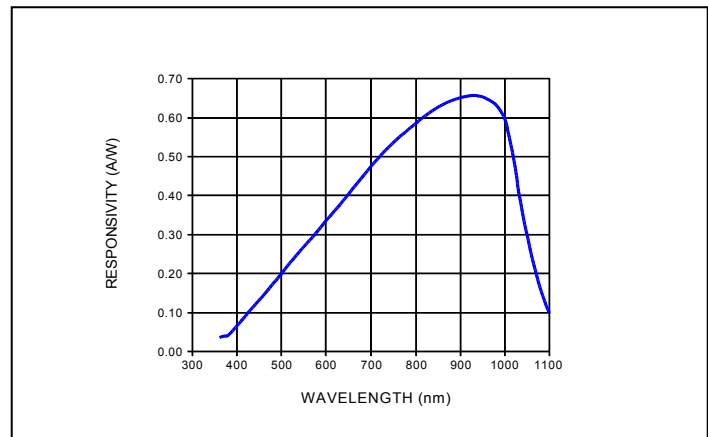
### ABSOLUTE MAXIMUM RATING

SYMBOL	PARAMETER	MIN	MAX	UNITS
T <sub>STG</sub>	Storage Temp	-55	+125	°C
T <sub>OP</sub>	Operating Temp	-40	+100	°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	4.0	nA
C	Capacitance	V <sub>R</sub> = 12 V	---	40	---	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	---	2.1 × 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.

#### 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)

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