

### FEATURES

- 5.70 mm X 5.75 mm active area
- Low capacitance
- Long term stability
- High NIR sensitivity

### DESCRIPTION

32.8 mm<sup>2</sup> Low Capacitance PIN Photodiode. Chips have special metallization designed for soldered wire connections. Available on stretch rings, or mylar tape or as bare die in chip trays.

### APPLICATIONS

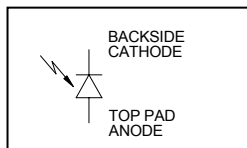
- Laser detection
- Instrumentation
- Medical equipment
- Pulsed light sensor



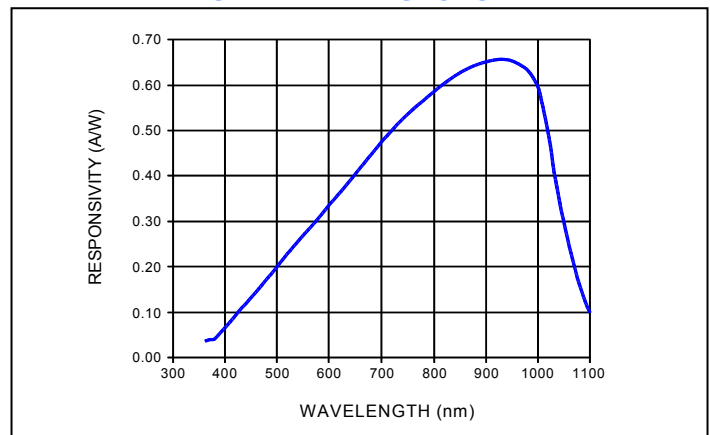
### ABSOLUTE MAXIMUM RATING

SYMBOL	PARAMETER	MIN	MAX	UNITS
T <sub>STG</sub>	Storage Temp	-55	+125	°C
T <sub>OP</sub>	Operating Temp	-40	+100	°C
T <sub>SOLDERING</sub>	Soldering Temp < 20 seconds per side		+280	°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 @ 25° C

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
R <sub>SH</sub>	Shunt Resistance	V <sub>R</sub> = ±10 mV	10	50	---	MΩ
I <sub>D</sub>	Dark Current	V <sub>R</sub> = 5 V	---	2	30	nA
C	Capacitance	V <sub>R</sub> = 0 V;	---	160	---	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> = 5 V; λ = 850 nm; R <sub>L</sub> = 50 Ω		3.0 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> = 5 V; λ = 850 nm; R <sub>L</sub> = 50 Ω	---	55	---	ns

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

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7/20/2010

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