

### FEATURES

- Ø 14.0 mm active area
- Low dark current & capacitance
- Fast rise times
- High QE at 1064 nm

### DESCRIPTION

4 X 38.5 mm<sup>2</sup> NIR enhanced Quadrant PIN Photodiode with 100 µm gaps. Packaged in a case isolated jumbo TO-8 with a fused silica window cap.

### APPLICATIONS

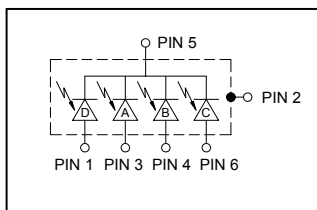
- Pulsed 1064 nm laser detection
- NIR pulsed light sensor
- High speed photometry



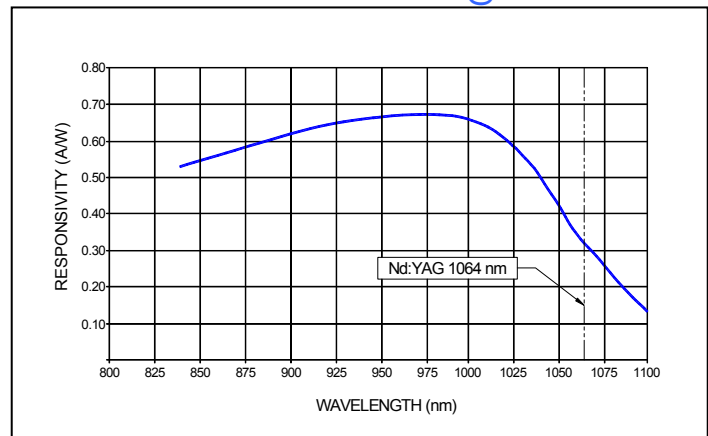
### ABSOLUTE MAXIMUM RATING

SYMBOL	PARAMETER	MIN	MAX	UNITS
T <sub>STG</sub>	Storage Temp	-20	+80	°C
T <sub>OP</sub>	Operating Temp	0	+70	°C
V <sub>R(OP)</sub>	Reverse Operating Voltage	-	180	V
I <sub>P(PK)</sub>	Peak DC Current	-	10	mA

### SCHEMATIC



### SPECTRAL RESPONSE @ 23°C



### ELECTRO-OPTICAL CHARACTERISTICS @ 23 °C PER ELEMENT

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I <sub>D</sub>	Dark Current	V <sub>R</sub> = 150 V; @ 23°C	---	20	---	nA
		V <sub>R</sub> = 150 V; @ 60°C	---	600	---	
C	Capacitance	V <sub>R</sub> = 150 V	---	25	---	pF
		Responsivity	V <sub>R</sub> = 150 V; λ = 1064 nm; @ 23°C	---	0.30	
		V <sub>R</sub> = 150 V; λ = 1064 nm; @ 60°C	---	0.40	---	
V <sub>BR</sub>	Breakdown Voltage	I <sub>R</sub> = 10 µA	250	---	---	V
t <sub>r</sub>	Rise Time	V <sub>R</sub> = 150 V; λ = 1064 nm; RL = 50 Ω	---	6	---	ns
	Uniformity of Response	V <sub>R</sub> = 150 V; λ = 1064 nm; @ 23°C	---	2	5	%
		Cross talk	V <sub>R</sub> = 150 V; λ = 1064 nm; @ 23°C	---	2	

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

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