

FEATURES

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

DESCRIPTION

4 X 38.5 mm² NIR enhanced Quadrant PIN Photodiode with 70 µm gaps. Packaged in a case isolated jumbo TO-8 with a non-hermetic ultra flat borosilicate glass window cap.

APPLICATIONS

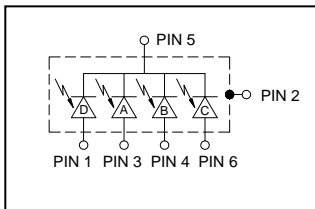
- Pulsed 1064 nm laser detection
- NIR pulsed light sensor
- High speed photometry



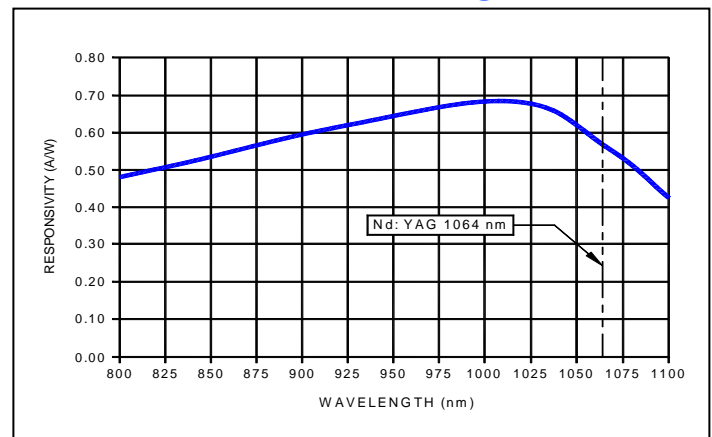
ABSOLUTE MAXIMUM RATING

SYMBOL	PARAMETER	MIN	MAX	UNITS
T _{STG}	Storage Temp	-20	+80	°C
T _{OP}	Operating Temp	0	+70	°C
V _{R(OP)}	Reverse Operating Voltage	-	180	V
I _(PEAK)	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 _D	Dark Current	V _R = 150 V; @ 23°C	---	20	---	nA
		V _R = 150 V; @ 60°C	---	600	---	
C	Capacitance	V _R = 150 V	---	25	---	pF
	Responsivity	V _R = 150 V; λ = 1010 nm; @ 23°C	---	0.68	---	A/W
		V _R = 150 V; λ = 1064 nm; @ 23°C	---	0.56	---	
V _{BR}	Breakdown Voltage	I _R = 10 µA	250	---	---	V
t _r	Rise Time	V _R = 150 V; λ = 1064 nm; RL = 50 Ω	---	6	---	ns
	Uniformity of Response	V _R = 150 V; λ = 1064 nm; @ 23°C	---	2	5	%
	Cross talk	V _R = 150 V; λ = 1064 nm; @ 23°C	---	2	5	%

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

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