

FEATURES

- Ø 7.98 mm active area
- Low dark current
- Long term stability
- High shunt resistance

DESCRIPTION

50.0 mm² Low Dark Current PIN Photodiode. Packaged in a TO-8 with a non-hermetic ultra flat fused silica glass window cap. Also available with six pin isolated case package.

APPLICATIONS

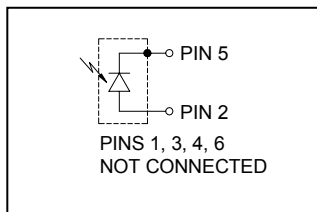
- Precision photometry
- Bar code readers
- Medical equipment
- Pulsed light sensor



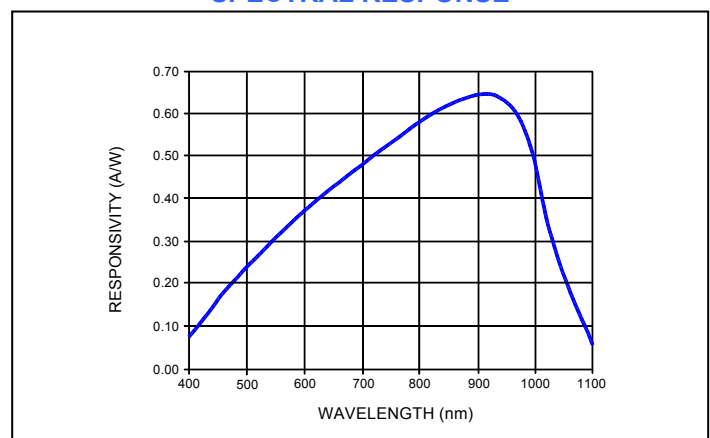
ABSOLUTE MAXIMUM RATING

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

SCHEMATIC



SPECTRAL RESPONSE



ELECTRO-OPTICAL CHARACTERISTICS @ 22° C

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
R _{SH}	Shunt Resistance	V _R = ±10 mV	100	300	---	MΩ
I _D	Dark Current	V _R = 10 V	---	0.5	---	nA
C	Capacitance	V _R = 0 V;	---	480	---	pF
		V _R = 10 V;	---	100	---	
	Responsivity	V _R = 0 V; λ = 633 nm	---	0.40	---	A/W
		V _R = 0 V; λ = 900 nm	---	0.64	---	
NEP	Noise Equivalent Power	V _R = 10 V; λ = 850 nm; R _L = 50 Ω	---	2.5 X 10 ⁻¹⁴	---	W/Hz ^{1/2}
V _{BR}	Breakdown Voltage	I _R = 10 μA	100	---	---	V
t _r	Rise Time	V _R = 10 V; λ = 850 nm; R _L = 50 Ω	---	30	---	ns
		V _R = 80 V; λ = 850 nm; R _L = 50 Ω	---	7	---	

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

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