

FEATURES

- 9.88 mm X 9.39 mm active area
- Low dark current
- Fast response time
- RoHS compliant

DESCRIPTION

92.77 mm² Low Dark Current Photodiode Chip with P on N construction. Chips have special metallization designed for soldered wire connections. Available on stretch rings, or mylar tape or as bare die in chip trays.

APPLICATIONS

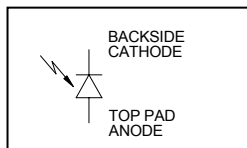
- Precision photometry
- Bar code readers
- Medical equipment
- Pulsed light sensor



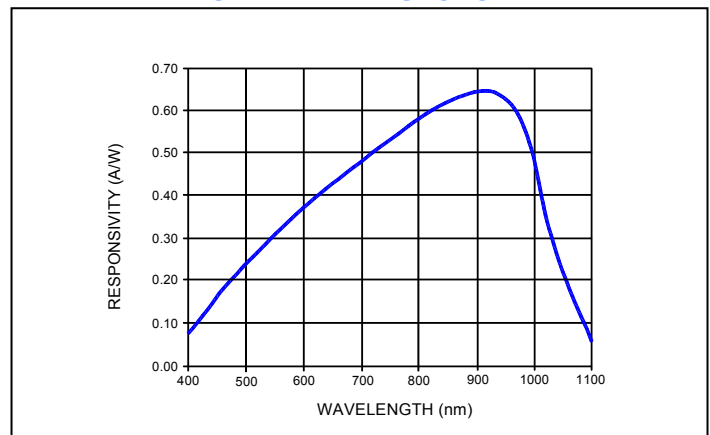
ABSOLUTE MAXIMUM RATING

SYMBOL	PARAMETER	MIN	MAX	UNITS
T _{STG}	Storage Temp	-55	+125	°C
T _{OP}	Operating Temp	-40	+100	°C
T _{SOLDERING}	Soldering Temp < 30 seconds per side		+280	°C
V _{R(OP)}	Reverse Operating Voltage	-	50	V
I _(PEAK)	Peak DC Current	-	10	mA

SCHEMATIC



SPECTRAL RESPONSE



ELECTRO-OPTICAL CHARACTERISTICS @ 25° C

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
R _{SH}	Shunt Resistance	V _R = ±10 mV	150	---	---	MΩ
I _D	Dark Current	V _R = 20 V	---	0.5	10	nA
C	Capacitance	V _R = 0 V;	---	1000	---	pF
		V _R = 5 V;	---	250	---	
	Responsivity	V _R = 0 V; λ = 633 nm	---	0.40	---	A/W
		V _R = 0 V; λ = 900 nm	---	0.60	---	
NEP	Noise Equivalent Power	V _R = 20 V; λ = 905 nm; R _L = 50 Ω		1.0 X 10 ⁻¹³		W/Hz ^{1/2}
V _{BR}	Breakdown Voltage	I _R = 10 μA	50	---	---	V
t _r	Rise Time	V _R = 20 V; λ = 905 nm; R _L = 50 Ω	---	30	---	ns

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

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