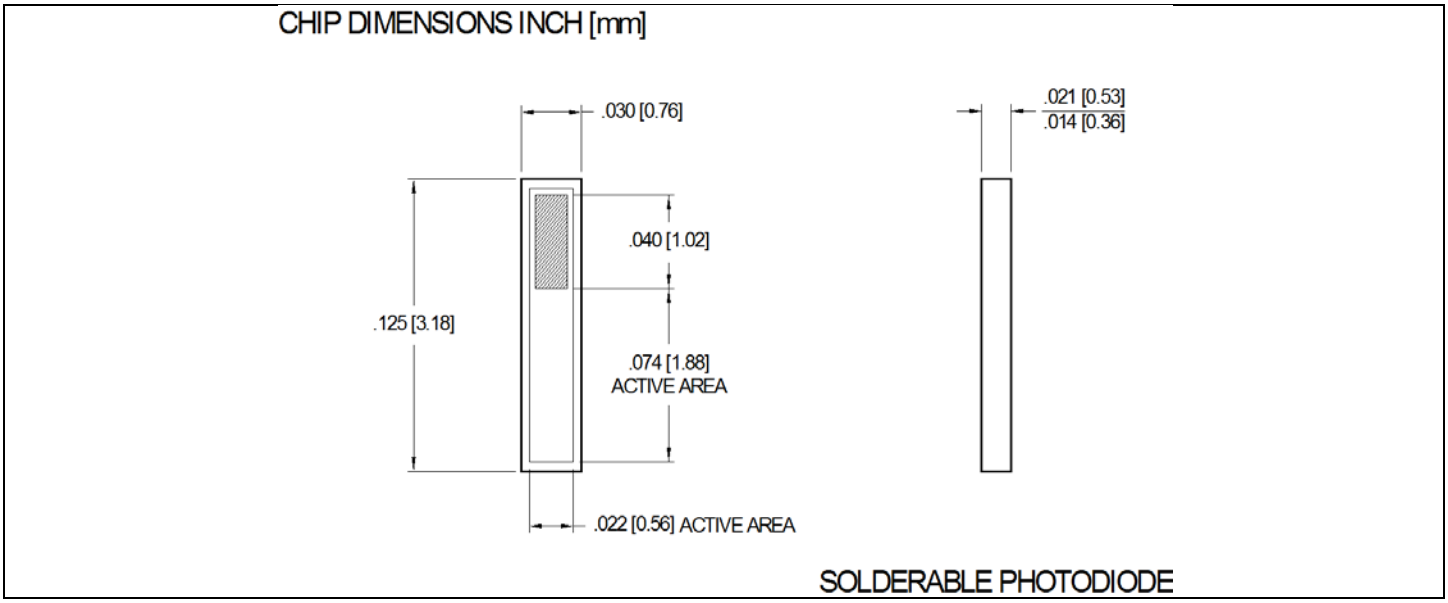


DESCRIPTION

The **PDB-C601-1** is a silicon red enhanced solderable photodiode designed for low capacitance and high speed for photoconductive applications.

FEATURES

- Red Enhanced
- Photoconductive
- High quantum efficiency

RELIABILITY

Contact Luna for recommendations on specific test conditions and procedures.

APPLICATIONS

- Optical Encoder
- Position Sensor
- Industrial Controls
- Instrumentation

ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN		MAX	UNITS	
Reverse Voltage	-	-	75	V	T_a = 23°C UNLESS OTHERWISE NOTED
Storage Temperature	-40	-	+125	°C	-
Operating Temperature	-40	to	+100	°C	-
Soldering Temperature*	-	-	+224	°C	-

* 1/16 inch from case for 3 seconds max.

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.

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OPTO-ELECTRICAL PARAMETERS

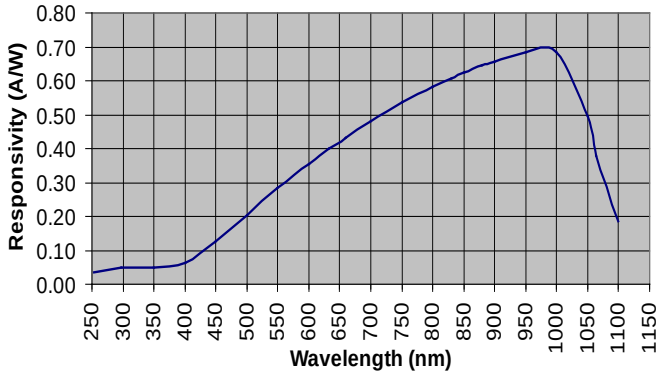
T_a = 23°C UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Short Circuit Current	H= 100 fc, 2850 K	15	17	-	µA
Dark Current	V_R = 5 V	-	0.5	2	nA
Shunt Resistance	V_R = 10 mV	60	150	-	MΩ
Junction Capacitance	V_R =5V; f = 1 MHz	-	10	-	pF
Spectral Application Range	Spot Scan	350	-	1100	nm
Breakdown Voltage	I=10 µA	25	50	-	V
Noise Equivalent Power	V_R =0V@λ= Peak	-	$1x10^{-14}$	-	W/ $\sqrt{}$ Hz
Response Time**	RL = 1KΩ,V_R = 5 V	-	10	-	nS

**Response time of 10% to 90% is specified at 660nm wavelength light.

TYPICAL PERFORMANCE

SPECTRAL RESPONSE



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