



DESCRIPTION

The **PDB-C110** is a blue enhanced PIN silicon photodiode in a photoconductive mode, packaged in a ceramic package

FEATURES

- Low Noise
- Blue Enhanced
- High Shunt Resistance
- High Response

RELIABILITY

Contact Luna for recommendations on specific test conditions and procedures.

APPLICATIONS

- Instrumentation
- Industrial
- Medical

ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN		MAX	UNITS	
Reverse Voltage	-	-	75	V	T _a = 23°C UNLESS OTHERWISE NOTED
Storage Temperature	-20	to	+80	°C	-
Operating Temperature	-20	to	+60	°C	-
Soldering Temperature*	-	-	+240	°C	-

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

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	1.0	1.3	-	mA
Dark Current	V _R = 10V	-	10	50	nA
Shunt Resistance	V _R = 10 mV	15	30	-	MΩ
Junction Capacitance	V _R = 10V, f = 1 MHz	-	300	-	pF
Spectral Application Range	Spot Scan	350	-	1100	nm
Responsivity	λ = 450nm V, V _R = 0V	0.15	0.17	-	A/W
Breakdown Voltage	I = 10 μA	30	50	-	V
Noise Equivalent Power	V _R = 0V @ λ = Peak	-	3.0x10 ⁻¹³	-	W/√Hz
Response Time**	RL = 50Ω, V _R = 0V	-	190	-	nS
	RL = 50Ω, V _R = 10V	-	13	-	

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

TYPICAL PERFORMANCE

SPECTRAL RESPONSE

