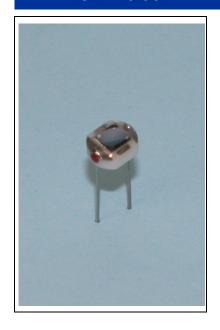
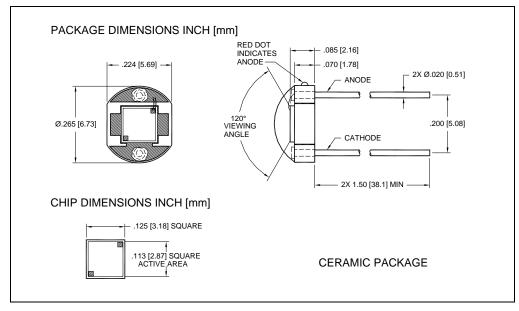


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Precision – Control – Results





DESCRIPTION

The **PDB-V113** is a blue enhanced PIN silicon photodiode in a photovoltaic 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	-40	to	+100	°C	-
Operating Temperature	-40	to	+90	°C	-
Soldering Temperature*	-	-	+240	°C	-

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



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OPTO-ELECTRICAL PARAMETERS

T_a = 23°C UNLESS OTHERWISE NOTED

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS	
Short Circuit Current	H=100 fc, 2850 K	60	80	-	mA	
Dark Current	V _R = 10V	-	300	500	pA	
Shunt Resistance	V _R = 10 mV	100	200	-	МΩ	
Junction Capacitance	$V_R = 0V, f = 1 MHz$	-	800	-	pF	
Spectral Application Range	Spot Scan	350	-	1100	nm	
Responsivity	λ = 450nm V, V _R =0V	0.15	0.17	-	A/W	
Breakdown Voltage	Ι = 10 μΑ	30	50	-	V	
Noise Equivalent Power	V _R = 0V@ λ=Peak	-	6x10 ⁻¹⁴	-	W/√ _{Hz}	
D Tim **	$RL = 50\Omega$, $V_R = 0V$	-	190	-	0	
Response Time**	$RL = 50\Omega$, $V_R = 10V$	-	13	-	– nS	

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

TYPICAL PERFORMANCE

SPECTRAL RESPONSE

