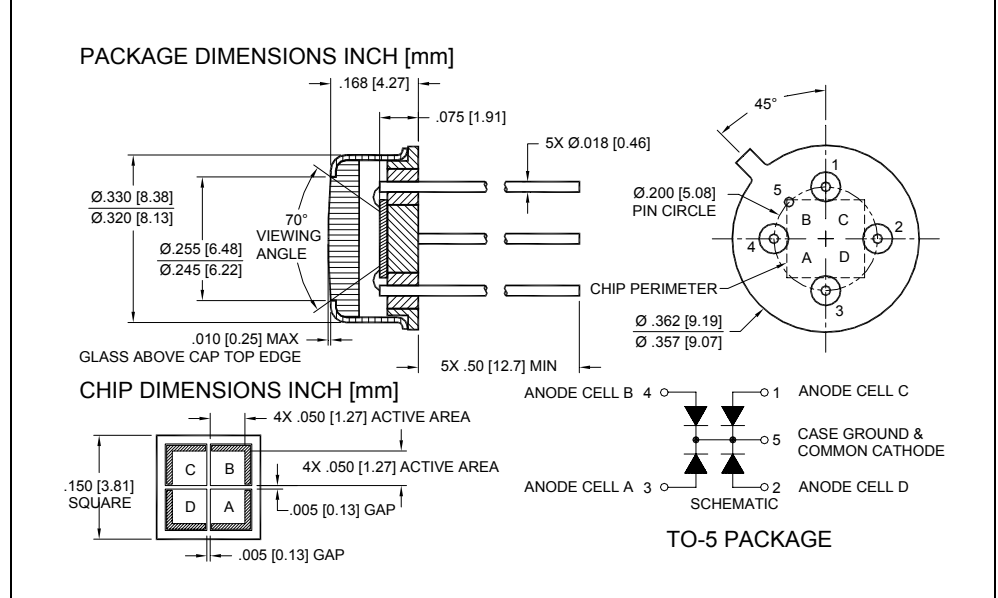


PDB-C203

Blue Enhanced Quad-Cell Silicon Photodiode



FEATURES

- Low capacitance
- Blue enhanced
- High speed
- Low dark current

DESCRIPTION

The **PDB-C203** is a blue enhanced quad-cell silicon photodiode used for nulling, centering, or measuring small positional changes packaged in a hermetic TO-5 metal package.

APPLICATIONS

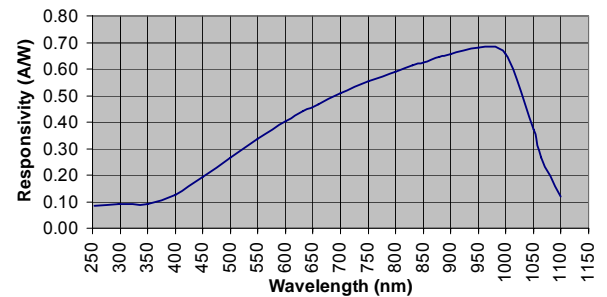
- Emitter Alignment
- Position sensing
- Medical and Industrial

ABSOLUTE MAXIMUM RATING (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	PARAMETER	MIN	MAX	UNITS
V _{BR}	Reverse Voltage		100	V
T _{STG}	Storage Temperature	-55	+150	°C
T _O	Operating Temperature	-40	+125	°C
T _S	Soldering Temperature*		+240	°C

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

SPECTRAL RESPONSE



ELECTRO-OPTICAL CHARACTERISTICS RATING (TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _{SC}	Short Circuit Current	H = 100 fc, 2850 K	30	50		μA
I _D	Dark Current	V _R = 5V		0.5	1.0	nA
R _{SH}	Shunt Resistance	V _R = 10 mV	250	500		MΩ
C _J	Junction Capacitance	V _R = 10 V, f = 1 MHz		8		pF
λ range	Spectral Application Range	Spot Scan	350		1100	nm
V _{BR}	Breakdown Voltage	I = 10 μA	50	75		V
NEP	Noise Equivalent Power	V _R = 0V @ λ = Peak		8.5x10 ⁻¹⁵		W/√Hz
t _r	Response Time**	RL = 50 Ω, V _R = 0 V		190		nS
		RL = 50 Ω, V _R = 10 V		13		

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

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.