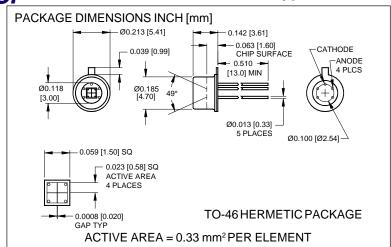
PHOTONIC DETECTORS INC.

Silicon Photodiode, Blue Enhanced Photoconductive **Quadrant Type PDB-C207**





FEATURES

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

DESCRIPTION

The PDB-C207 is a silicon, pin planar diffused, blue enhanced quadrant photodiode. Ideal for high speed photoconductive applications. Packaged in a hermetic TO-46 metal can with a flat window.

APPLICATIONS

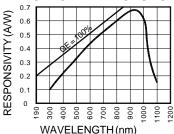
- Optical alignment
- · Position sensing
- Edge sensing
- Instrumentation

ABSOLUTE MAXIMUM RATING (TA=25°C unless otherwise noted)

SYMBOL	PARAMETER	MIN	MAX	UNITS	
V _{BR}	Reverse Voltage		100	V	
T _{STG}	Storage Temperature	-30	+100	∘C	
То	Operating Temperature Range	-20	+80	∘C	
Ts	Soldering Temperature*		+240	∘C	
IL	Light Current		0.5	mA	

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

SPECTRAL RESPONSE



ELECTRO-OPTICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

SYMBOL	CHARACTERISTIC	TESTCONDITIONS	MIN	TYP	MAX	UNITS
Isc	Short Circuit Current	H = 100 fc, 2850 K	1.5	2.2		μΑ
ΙD	Dark Current	H = 0, V _R = 1 V		1	5	nA
Rsн	Shunt Resistance	H = 0, V _R = 10 mV	100	500		MΩ
TC Rsh	RsH Temp. Coefficient	H = 0, V _R = 10 mV		-8		%/°C
Сл	Junction Capacitance	H = 0, V _R = 10 V		10		pF
λrange	Spectral Application Range	Spot Scan	350		1100	nm
λρ	Spectral Response - Peak	Spot Scan		950		nm
VBR	Breakdown Voltage	I = 10 μA	30	75		V
NEP	Noise Equivalent Power	V _R = 10 V @ Peak		6x10 ⁻¹³		W/ √Hz
tr	Response Time	RL = 1 KΩ V _R = 10 V		100		nS

Information in this technical data sheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice. [FORM NO. 100-PDB-C207 REV A]