Advanced Photonix
An OSI Optoelectronics Company

PDB-C156

RoHS COMPLIANT

FEATURES

- Micro Package
- Photoconductive
- High Speed
- Low Cost

DESCRIPTION

The **PDB-C156** is a blue enhanced PIN silicon photodiode in a photoconductive mode packaged in a water clear plastic sidelooking package.

APPLICATIONS

- Smoke Detectors
- Data Link
- TV & VCR Remotes

> Absolute Maximum Ratings

Part No.	Wavelength Range [nm]	Reverse Voltage [V]	Operating Temperature [C]	Storage Temperature [C]	Package
PDB-C156	400 to 1100	50	-40 to +80	-40 to +100	Sidelooking

> Electrical and Optical Characteristics

Typical Characteristics (T=23°C unless specified)						
Parameter	**Test Conditions**	**Symbol**	**Min**	**Typical**	**Max**	**Unit**
Short Circuit Current	H=100 fc, 2850 K	I_{SC}	70	90	-	µA
Dark Current	V_R = 10 V	I_D	-	2	15	nA
Shunt Resistance	V_R = 10 mV	R_{SH}	100	150	-	MΩ
Junction Capacitance	V_R =10V; f = 1 MHz	C_J	-	10	15	pF
Spectral Application Range	Spot Scan	λ	400	-	1100	nm
Breakdown Voltage	I=10 µA	V_{BD}	30	75	-	V
Noise Equivalent Power	V_R =10V@λ= Peak	NEP	-	$4.4x10^{-14}$	-	W/ $\sqrt{}$ Hz
Response Time[1]	RL = 1KΩ, V_R = 10 V	T_R	-	15	-	nS

Note:
1. Response time of 10% to 90% is specified at 660nm wavelength light.

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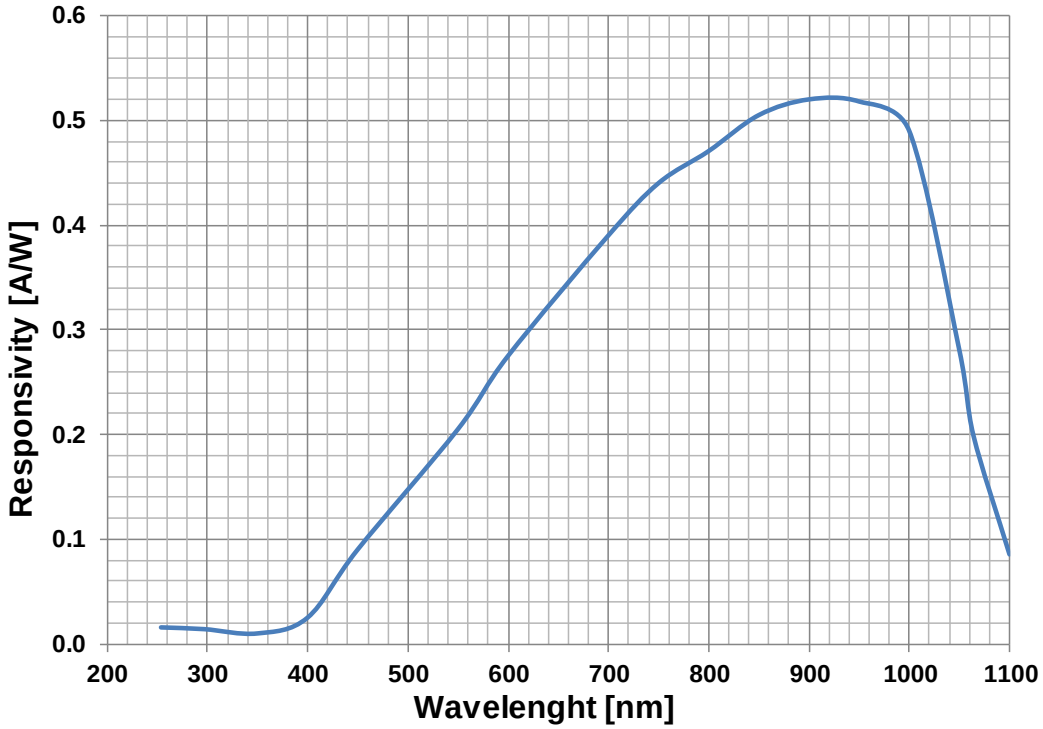
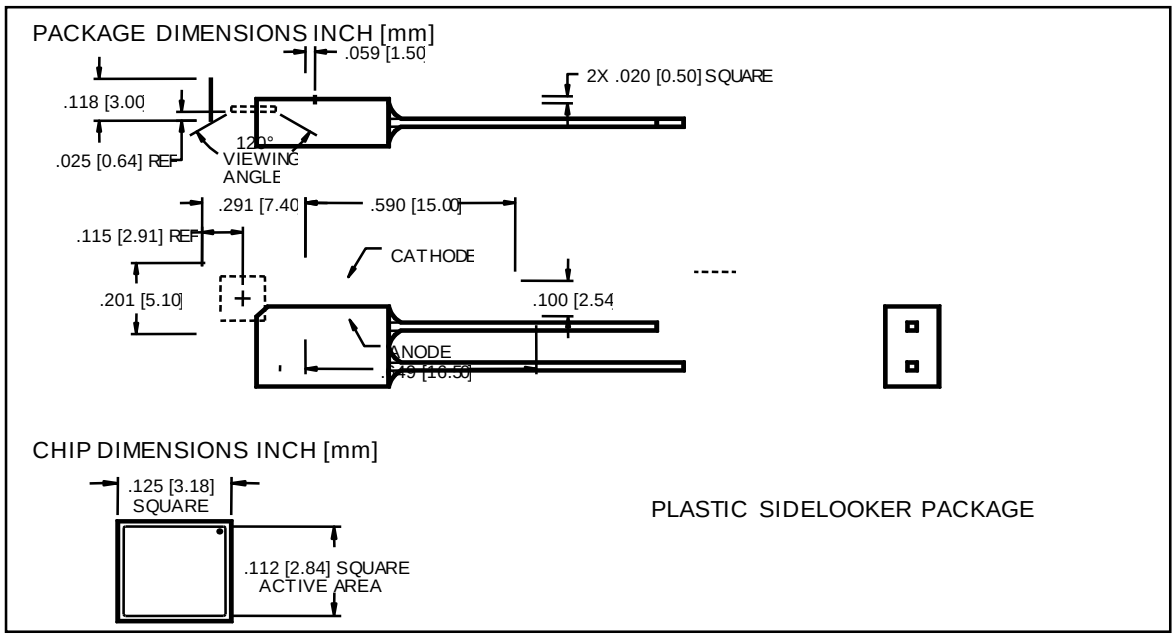
> Spectral Response



> Package Dimensions



> Soldering Conditions: 260˚C 1/16 inch away from case for 3 seconds max.

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MATERIALS SAFETY

This product is free of conflict minerals and meets REACH compliance. Please see website for reports.

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