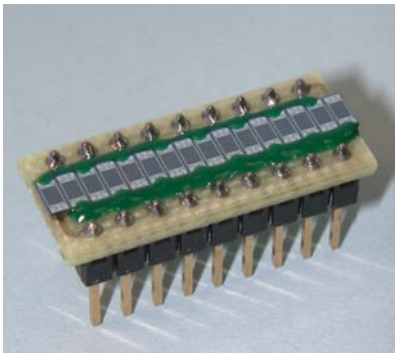
Advanced Photonix
An OSI Optoelectronics Company

PDB-C216

RoHS COMPLIANT



FEATURES

- Stackable
- Blue enhanced
- Low Cost

DESCRIPTION

The **PDB-C216** is a blue enhanced linear array 16 elements silicon photodiode designed to be stackable and packaged in a PCB with a terminal strip package.

APPLICATIONS

- Card reader
- Baggage scanners
- Characters recognition

> Absolute Maximum Ratings

Part No.	Wavelength Range [nm]	Reverse Voltage [V]	Operating Temperature [C]	Storage Temperature [C]	Package
PDB-C216	350 to 1100	50	-20 to +75	-40 to +100	Terminal Strip

> 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}	18	28	-	µA
Dark Current	V_R = 5V	I_D	-	5	50	nA
Shunt Resistance	V_R = 10 mV	R_{sh}	100	200	-	MΩ
Junction Capacitance	V_R = 10 V, f= 1 MHz	C_J	-	40	60	pF
Breakdown Voltage	I = 10µA	V_{BD}	15	30	-	V
Noise Equivalent Power	V_R = 0V @ λ = peak	NEP	-	$2X10^{-14}$	-	$W/\sqrt{Hz}$
Response Time**	RL = 50 Ω, V_R = 0V	t_R	-	190	-	nS
	RL = 50 Ω, V_R =10V		-	13	-	

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

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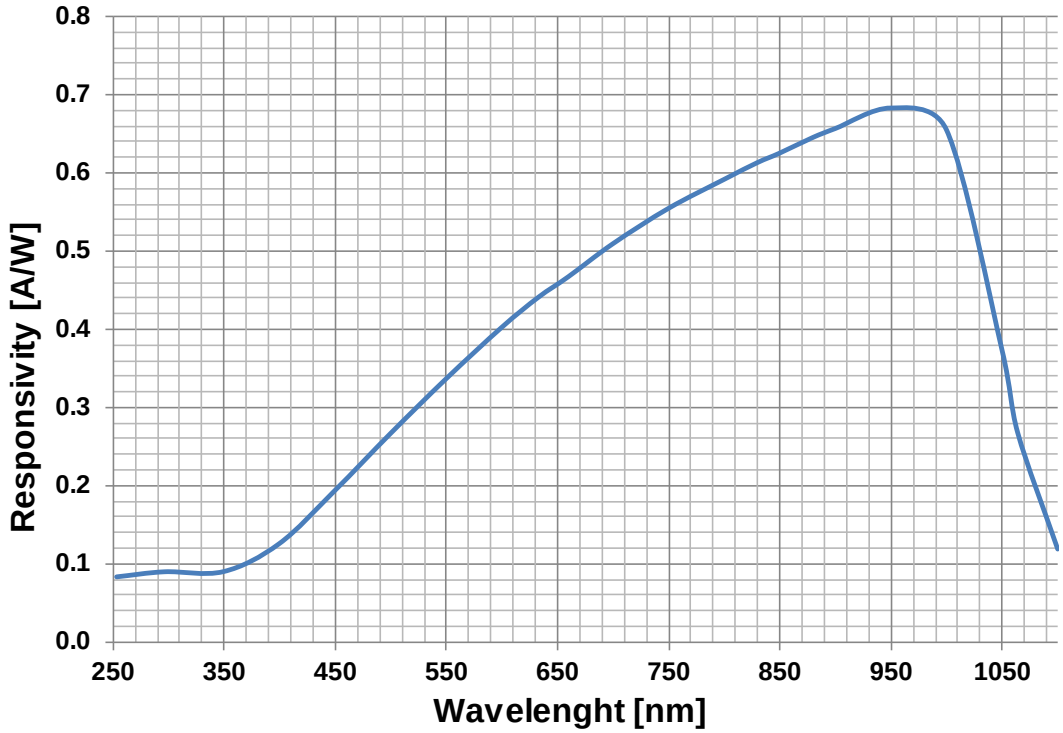
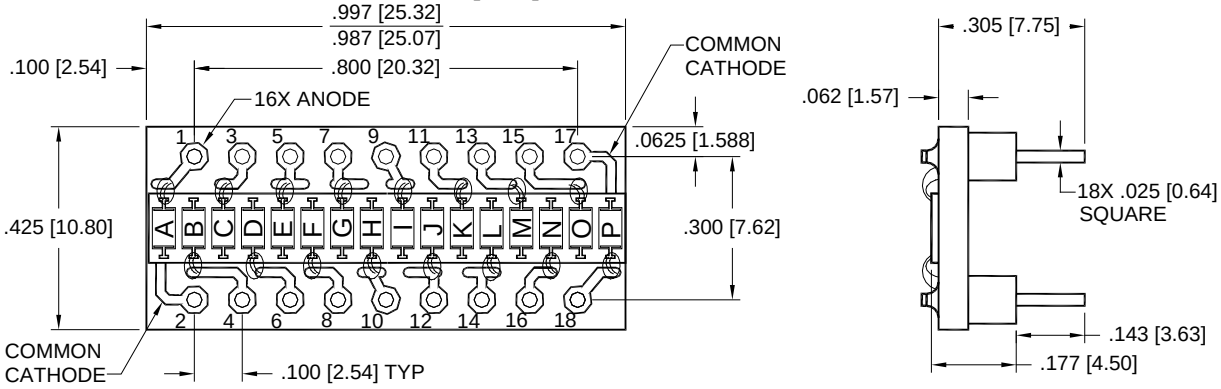
> Spectral Response

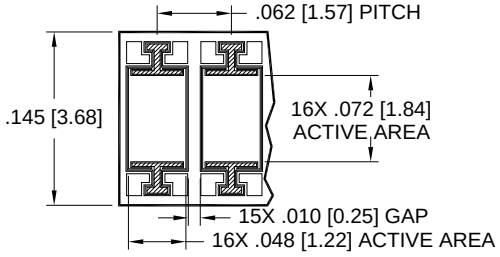


> Package Dimensions

PACKAGE DIMENSIONS INCH [mm]



CHIP DIMENSIONS INCH [mm]



PIN CONNECTIONS			
ELEMENT	PIN NO.	ELEMENT	PIN NO.
A	1	J	12
B	4	K	11
C	3	L	14
D	6	M	13
E	5	N	16
F	8	O	15
G	7	P	18
H	10	CATHODE	2
I	9	CATHODE	17

PCB PACKAGE

> 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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