

PDCA12-95

Short Wavelength

12 x 5 Gb/s Photodiode Array

Product Description

The PDCA12-95 is a fully qualified 12 channel photodiode array with a dual-pad layout and an optical aperture with a diameter of 95 μm allowing easy coupling to multi-mode fibers. The top illuminated photodiode array is optimized for short-reach, 850 nm VCSEL based, high-throughput parallel optical interconnects up to 5 Gb/s per channel and has a photodiode pitch of 250 μm for coupling to standard fiber ribbon cable. Each photodiode has a low capacitance and achieves full speed at a bias voltage of only 1.5 V.

Highlights

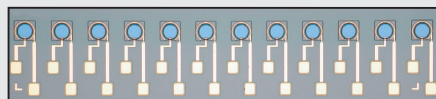
- Large optical aperture: 95 μm
- Large bandwidth: 5 GHz
- Low capacitance: 650 fF
- Low dark current: 8 nA
- Low bias voltage: 1.5 V

Applications

- Parallel optical interconnects

Availability

- Volume production



Dimensions: 3000 x 700 μm

Characteristics (T = 25 °C)

Parameter	Sym	U_R	Min	Typ	Max	Unit
Diameter of optical aperture	\varnothing			95		μm
Responsivity $\lambda = 830 - 860 \text{ nm}$	R	2.5 V	0.50			A/W
Dark current $T = 25 \text{ }^\circ\text{C}$	I_D	5 V		8	20	nA
$T = 95 \text{ }^\circ\text{C}$					400	
Bandwidth	B	2.5 V	4	5		GHz
Total capacitance	C	2.5 V			650	fF

For detailed product information visit www.albisopto.com



Albis Optoelectronics AG
 Moosstrasse 2
 8803 Rüslikon/Switzerland

Phone +41 43 388 06 10
 Fax +41 43 388 06 11

www.albisopto.com

REV 1.2 / 2005-01-04

Albis Optoelectronics reserves the right to make changes in design, specifications and other information at any time without prior notice. Information in this data sheet is believed to be reliable. However, no responsibility is assumed for possible inaccuracy or omission.