



## **REV 09/01**

## **Features**

1x12 p-i-n- photodiode array Array pitch 250  $\mu m$  Diameter of light sensitive area 68  $\mu m$  Individual pads for each photodiode High Speed Response:  $t_r/t_f$  80 ps AR-coatings for 850, 1300 or 1500 nm

## **Product Description**

The PDCA12-68 is a linear 1 x 12 InGaAs photodiode array based on a top-illuminated p-i-n structure. The 68  $\mu m$  diameter of the light sensitive area allows tolerant alignment to SM and MM fibres together with high-speed response. The photodiode pitch of 250  $\mu m$  is suitable for coupling to fibre ribbon cable. The devices offer excellent responsivity besides the high- speed response in the wavelength region from 800 to 1600 nm.

## Specifications T=25°C

Parameter		Sym	Min	Тур	Max	Unit
Responsivity	λ = 830 nm	R		0.45		A/W
	λ = 1300 nm			0.85		
	λ = 1550 nm			0.85		
Variation of Responsivity in		ΔR		1	3	%
Dark Current		ΙD		10		nA
Capacitance		С		0.5		pF
Speed of Response		t <sub>r'</sub> t <sub>f</sub>		80	100	ps
Bandwidth		В		5		GHz
Bias voltage		V+		2		V

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