

# PDCS200E

## Edge Illuminated Monitor Photodiode Chip

### Product Description

The PDCS200E is an edge-illuminated monitor photodiode chip with an angled facet and a large optical area for monitoring the optical output at the back facet of a FP or DFB laser. The incoming laser light is refracted by the angled side facet onto the active area, thus producing a photocurrent proportional to the light emitted at the back facet of the laser. The edge-illuminated monitor photodiode is optimized for monitoring edge-emitting lasers used in single-mode data- and telecom applications and offers excellent responsivity in the wavelength region from 1260 to 1620 nm. The top-side pad metallization is optimized for wire-bonding whereas the backside metallization includes AuSn solder for eutectic die attachment.

### Highlights

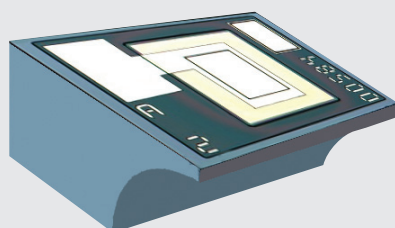
- Large active area: 180 x 220  $\mu\text{m}$
- Angled side facet for high coupling efficiency
- Low bias voltage: 1.5 V
- Backside metallization with deposited AuSn solder

### Applications

- Back facet laser monitoring

### Availability

- Volume production



Dimensions: 400 x 320  $\mu\text{m}$  / Height: 180  $\mu\text{m}$

### Characteristics (T = 25 °C)

Parameter	Sym	$U_R$	Min	Typ	Max	Unit
Responsivity	$\lambda = 1260 - 1600 \text{ nm}$ R	2.5 V	0.3			A/W
Dark current	T = 25 °C	$I_D$	5 V	10	50	nA
	T = 85 °C				500	
Total capacitance	C	5 V	2		4	pF
Linearity	Lin	10	-10%		10%	dBc

For detailed product information visit [www.albisopto.com](http://www.albisopto.com)



An Enablence Technologies Company

Albis Optoelectronics AG  
Moosstrasse 2  
8803 Rüslikon/Switzerland

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

[www.albisopto.com](http://www.albisopto.com)

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