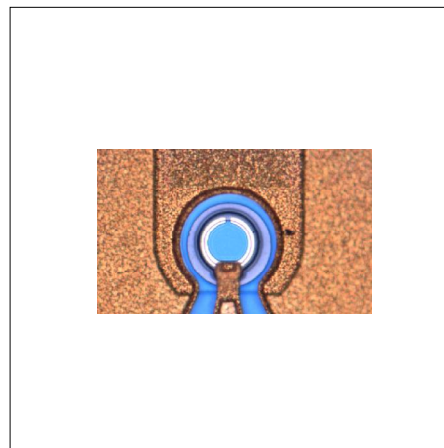


## High Speed (up to 40 Gbit/s) Photodetector Chips (700-890 nm)

Product Code: **D30-850C** chip



Sample image only. Actual product may vary.

### Product Description

These high-speed top-illuminated GaAs-based *pin* photodetector chips are available as engineering samples for use in development and evaluation of lasers and the next-generation of data communications systems. The chips exhibit responsivity greater than 0.4 A/W at 850 nm and are available in a GS or GSG pad layout configuration as engineering samples.

### Features

- 3 dB Bandwidth  $\geq$  30 GHz
- Available with GS or GSG pad layout
- GS size:  $\sim$ 240 x 320  $\mu$ m (100-200  $\mu$ m height)
- GSG size  $\sim$ 320 x 480  $\mu$ m (100-200  $\mu$ m height)
- Custom PD, chip size, and pad layouts available

### Applications

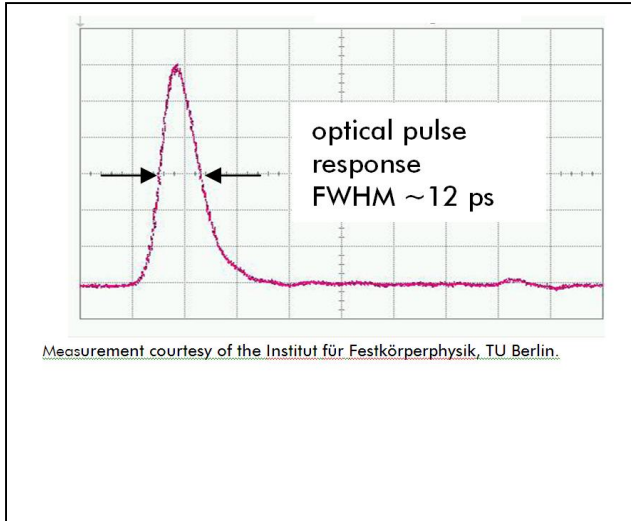
- Fiber optics systems tests
- Research and development
- VCSEL testing

## Preliminary

Parameter	Typical (PD chips)	Notes
Operating Wavelength	700 ~ 890 nm	
3 dB Bandwidth	$\geq$ 30 GHz	
Rise time (20% to 80%)	6 ps	
FWHM Pulse Width Response	12 ps @ -2V	< 3 ps TiSa input pulse
Responsivity	0.4 A/W	
Dark Current	< 10 pA	
Reverse bias voltage	-2 to -4 volts	
Maximum input power	2 mW @ 850 nm	

All product specifications and descriptions are subject to change without notice.

### Pulse response



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