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New Product Announcement:

High Optical Power Handling Balanced Photodiodes to 5 GHz Bandwidth for Quantum Key Distribution (QKD)

January 23, 2017 – Ewing, NJ – Discovery Semiconductors, an industry leader in manufacturing balanced detectors since 2001, introduces its high power balanced photodiodes to 5 GHz bandwidth. The DSC705 is a balanced InGaAs photodiode in “push-pull” configuration with each photodiode capable of handling high optical power up to +17 dBm (50 mW). As a pair, they will handle +20 dBm (100 mW).

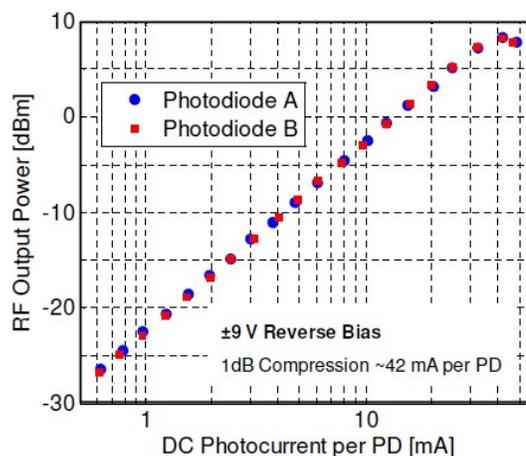


Fig. 1: Typical Saturation Current of Individual Photodiodes in DSC705

These InGaAs balanced photodiodes are ideal for Quantum Key Distribution (QKD) detection schemes as they are shot noise limited. The broad wavelength response (1060 nm through 1650 nm) of these photodiodes allows for one device for multiple wavelengths, and reduces operational and inventory cost. Additionally, they are well suited for applications using high LO powers up to +20 dBm, such as Coherent LIDAR with high dynamic range.

“Discovery Semiconductors has been a leader in supplying key balanced receivers for QKD community. As cyber security gains prominence, this new balanced photodiode offers another option,” commented Abhay Joshi, President and CEO.

Typical of Discovery Semiconductors' product line, these high powered InGaAs balanced photodiodes are available in either a K connectorized package or Discovery's easy-to-use, self-contained Lab Buddy instrument.



Fig 2: DSC-705 High Power Balanced Photodiode module and Lab Buddy

Meet us this February in Santa Clara, at the DesignCon 2017 exhibition, booth # 122.

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Discovery Semiconductors, Inc., established in 1993, is an industry leader in manufacturing ultrafast, broadband (800 nm - 2200 nm) high optical power handling InGaAs photodetectors, optical receivers, balanced optical receivers, PAM-4 linear optical receivers, Coherent receivers and wideband RF amplifiers for 10G through 400G applications. In addition, Discovery offers its complete photodetector and CDR product line in its plug-and-play Lab Buddy instrumentation platform.

For additional information, including complete product specifications, operational capabilities and pricing, or to discuss your application in detail, please call Discovery at: (609) 434-1311 or fax: (609) 434-1317.