

Combined expertise accelerated development cycle of the CVRx Barostim neoT - a second-generation, low-power, implantable device

The Associated Press

PHOENIX--(BUSINESS WIRE)--May 21, 2012-- ON Semiconductor (Nasdaq: ONNN), a premier supplier of high-performance silicon solutions for energy efficient electronics, announced today that CVRx, a market-leading developer of proprietary active implantable technology to treat high blood pressure, is using its technology and manufacturing services. CVRx recently launched the Barostim neo(TM) - the company's second-generation implantable anti-hypertensive barostimulation device - in Europe.

ON Semiconductor's extensive experience in designing and manufacturing analog, digital and mixed-signal semiconductor solutions for a wide range of medical applications helped CVRx achieve the required reliability and device performance during extensive pre-production testing. In addition, the use of ON Semiconductor design kits and intellectual property, as well as its layout and foundry services, compressed the development cycle.

The Barostim neo contains three ON Semiconductor devices. Two custom application-specific integrated circuits (ASICs) include a high-voltage analog C5 process device and a digital control ASIC manufactured using ON Semiconductor's I3T process, which supports digital integration, combined with mixed analog and smart power high-voltage structures. Also housed within the compact Barostim neo is an ON Semiconductor 8 megabit medical memory ASSP. All three devices achieve low-power operation to support long operational life - a key requirement for implantable medical devices.

"Our selection of ON Semiconductor for the development of our latest implantable device for treating hypertension has had multiple benefits," said Joe DuPay, vice president of Research & Development and Operations, CVRx, Inc. "By combining our own core expertise with ON Semiconductor's knowledge, experience and product longevity support in the demanding medical semiconductor market, we shortened the product development cycle while setting the highest standards in very low-power, reliable design." About CVRx CVRx, Inc. is a private company and is headquartered in Minneapolis.

The company has developed the Barostim neo for the treatment of high blood pressure and heart failure. For more information, visit www.cvr.com.

About ON Semiconductor ON Semiconductor (Nasdaq: ONNN) is a premier supplier of high-performance silicon solutions for energy efficient electronics.

The company's broad portfolio of power and signal management, logic, discrete and

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custom devices helps customers efficiently solve their design challenges in automotive, communications, computing, consumer, industrial, LED lighting, medical, military/aerospace and power applications. ON Semiconductor operates a world-class, value-added supply chain and a network of manufacturing facilities, sales offices and design centers in key markets throughout North America, Europe, and the Asia Pacific regions. For more information, visit <http://www.onsemi.com>.

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