# GLOBALFOUNDRIES Enters Volume Production of Ultra High Voltage Process Technology for Industrial and Power Applications

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*Company's versatile high voltage technology offers full complement of logic, analog and power devices*

**Santa Clara, Calif., May 29, 2018 –** GLOBALFOUNDRIES today announced that its 180nm Ultra High Voltage (180UHV) technology platform has entered volume production for a range of client applications, including AC-DC controllers for industrial power supplies, wireless charging, solid state and LED lighting, as well as AC adapters for consumer electronics and smartphones.

The increasing demand for highly cost-effective systems requires integrated circuits (ICs) that achieve significant area savings while reducing bill-of-materials (BOM) and printed circuit board (PCB) footprint by integrating discrete components onto the same die. GF's 180UHV platform features a 3.3V LV CMOS baseline, with options for HV18, HV30 and 700V UHV, that delivers significant area savings for both digital and analog circuit blocks, compared to the traditional 5V bipolar CMOS DMOS (BCD) technologies.

"GF's leadership in providing high voltage solutions makes the company a perfect strategic partner for On-Bright's power supply technologies," said Julian Chen, CEO of On-Bright, the leading market player in AC-DC switch mode power supply products. "GF's new 180UHV process integrates UHV components into the same IC with 180nm digital and analog by incorporating On-Bright know-how in the design. The technology has reduced On-Bright's switched-mode power supply cost and footprint to give our AC-DC switch mode power supply products additional system-level benefits."

As part of a modular platform based on the company's 180nm process node, GF's 180UHV process technology delivers a 10x increase in digital density compared to previous generations for integrated AC-DC conversion. For AC-DC conversion, the platform integrates high voltage transistors with precision analog and passive devices to control high input and output voltages of AC-DC SMPS circuits. The process is qualified up to 150°C to accommodate the high ambient temperatures of power supply and LED lighting products.

"GF continues to expand its UHV portfolio to provide competitive technology capabilities and manufacturing excellence that will enable our customers to play a critical role in bringing a new generation of highly integrated devices to real-world environments," said Dr. Bami Bastani, senior vice president of business units at GF. "Our 180UHV is an ideal technology for customers that are looking to develop the highest-performing solutions for a new generation of integrated digital, analog and high voltage applications."

As a part of the company's analog and power platform, GF provides various types of HV, BCD, and UHV technologies, allowing customers to integrate power and high voltage transistors across a wide range of voltages, from 5V to 700V, to meet the diverse needs of low and high power applications. GF has a successful track record in manufacturing analog and power solutions in both its 200mm and 300mm production lines in Singapore.

For more information on GF's high voltage solutions, contact your GF sales representative or go to globalfoundries.com.

**About GF**

GLOBALFOUNDRIES is a leading full-service semiconductor foundry providing a unique combination of design, development, and fabrication services to some of the world's most inspired technology companies. With a global manufacturing footprint spanning three continents, GLOBALFOUNDRIES makes possible the technologies and systems that transform industries and give customers the power to shape their markets. GLOBALFOUNDRIES is owned by Mubadala Investment Company. For more information, visit globalfoundries.com.

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