



The Global Specialty Foundry Leader

NEWS ANNOUNCEMENT

FOR IMMEDIATE RELEASE

TowerJazz Announces Release of Advanced 300mm 65nm BCD Power Management Platform Addressing the Massive Power Products Market Operating up to 16V

This absolute best-in-class platform creates breakthrough performance and cost advantages in the multi-billion dollar <16V application power management IC market

MIGDAL HAEMEK, Israel, May 2, 2018 – [TowerJazz](http://www.towerjazz.com), the global specialty foundry leader, today announced the release of its 300mm 65nm BCD (Bipolar-CMOS-DMOS) process, the most advanced power management platform for up to 16V operation and 24V maximum voltage. This technology is manufactured in TowerJazz's Uozu, Japan facility, with best-in-class quality and cycle time, and is based on the Company's 300mm 65nm automotive qualified flows.

This platform provides significant material competitive advantages for any type of power management chip up to 16V regardless of application, including a wide variety of products such as: PMICs, load switches, DC-DC converters, LED drivers, motor drivers, battery management, analog and digital controllers, and more. IHS Markit Power IC Analyst, Kevin Anderson forecasts a \$9.4 billion available market, which this technology addresses, in 2018 with continual growth.

TowerJazz's 65nm BCD process is leading this low voltage market segment with the highest power efficiency, very small die size, best digital integration capability; and superior cost effectiveness through both the smallest aerial footprint and the lowest mask count.

The process includes four leading edge power LDMOS transistors: 5V, 7V, 12V and 16V operation, each with the best available R_{dson} and Q_{gd} parameters. In addition to the new aforementioned cost and figure of merit benchmarks, multiple chips can be integrated to a single monolithic IC solution replacing a multiple chip module for an improved system cost structure and system performance.

TowerJazz's power transistors are fully isolated to withstand high currents, all with an ultra-low R_{dson} , e.g. less than $1m\Omega \cdot mm^2$ for the 5V LDMOS. For products which operate at the megahertz (MHz) switching frequencies, the 65nm BCD power transistors benefit from a very low Q_{gd} down to $2.6m\Omega \cdot nC$. In addition, very low metal resistance is achieved using a single or dual 3.3um top thick copper. The 65nm BCD also offers aggressive $113Kgate/mm^2$ 5V digital density and an $800Kgate/mm^2$ 1.2V digital library.

“This new 65nm BCD platform establishes TowerJazz as a technology leader in the related growing markets for up to 16V power applications,” said Shimon Greenberg, Vice President and General Manager of Power Management & Mixed-Signal/CMOS Business Unit, TowerJazz. “Best addressing the vast low voltage power management market segment, we are experiencing very high interest from early adopter customers and plan a mass production ramp by the fourth quarter of 2018.”

TowerJazz will be exhibiting at ISPSD, the 30th IEEE International Symposium on Power Semiconductor Devices and ICs on May 13-17, 2018 in Chicago, USA.

For more information on TowerJazz’s 65nm BCD technology, please visit <http://www.towerjazz.com/power-management.html>.

About TowerJazz

Tower Semiconductor Ltd. (NASDAQ: TSEM, TASE: TSEM) and its subsidiaries operate collectively under the brand name TowerJazz, the global specialty foundry leader. TowerJazz manufactures next-generation integrated circuits (ICs) in growing markets such as consumer, industrial, automotive, medical and aerospace and defense. TowerJazz’s advanced technology is comprised of a broad range of customizable process platforms such as: SiGe, BiCMOS, mixed-signal/CMOS, RF CMOS, CMOS image sensor, integrated power management (BCD and 700V), and MEMS. TowerJazz also provides world-class design enablement for a quick and accurate design cycle as well as Transfer Optimization and development Process Services (TOPS) to IDMs and fabless companies that need to expand capacity. To provide multi-fab sourcing and extended capacity for its customers, TowerJazz operates two manufacturing facilities in Israel (150mm and 200mm), two in the U.S. (200mm) and three facilities in Japan (two 200mm and one 300mm). For more information, please visit www.towerjazz.com.

Safe Harbor Regarding Forward-Looking Statements

This press release includes forward-looking statements, which are subject to risks and uncertainties. Actual results may vary from those projected or implied by such forward-looking statements. A complete discussion of risks and uncertainties that may affect the accuracy of forward-looking statements included in this press release or which may otherwise affect TowerJazz’s business is included under the heading "Risk Factors" in Tower’s most recent filings on Forms 20-F, F-3, F-4 and 6-K, as were filed with the Securities and Exchange Commission (the “SEC”) and the Israel Securities Authority and Jazz’s most recent filings on Forms 10-K and 10-Q, as were filed with the SEC, respectively. Tower and Jazz do not intend to update, and expressly disclaim any obligation to update, the information contained in this release.

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TowerJazz Company Contact: Lauri Julian | +1 949-280-5602 | lauri.julian@towerjazz.com
TowerJazz Investor Relations Contact: Noit Levi | +972-4-604-7066 | noit.levi@towerjazz.com