

Power Integrations Extends Compact 1200 V/1700 V SCALE-2+ Dual-Driver-Core Family with More Protection Features

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Embedded paralleling simplifies design; EMC-robust; Advanced Active Clamping (AAC) or Soft Shut Down (SSD)

SAN JOSE, Calif.--(BUSINESS WIRE)-- Power Integrations (Nasdaq:**POWI**), the leader in IGBT-driver technology, today launched its latest **SCALE™-2+** dual IGBT-driver core, the 2SC0435T2G1-17, which is the most compact product in its power range with a footprint of only 57.2 x 51.6 mm and a height of just 20 mm. The new **SCALE-2+** technology enables Soft Shut Down (SSD) to be implemented in the event of a short circuit without requiring additional components. This is particularly beneficial in applications with low stray-inductance where full Advanced Active Clamping (AAC) may not be required. If desired, the core can also provide full AAC. Designed to drive all standard 1200 V and 1700 V IGBTs, the 2SC0435T2G1-17 driver core features an embedded paralleling capability to simplify inverter design at high power ratings. Multi-level topologies are also supported.

The 2SC0435T2G1-17 combines a complete two-channel driver core with all components required for driving, such as a galvanic isolated DC/DC converter, short-circuit protection, AAC or SSD and under-voltage lock out on both the primary and secondary sides. A new EMC-robust design enables safe and reliable operation in even harsh industrial environments. Each of the two output channels is electrically isolated from the primary side and the secondary channel. An output current of ±35 A peak and 4 W drive power at 85 degC is available per channel and the turn-on voltage is regulated to maintain a stable +15 V regardless of the output power level.

Comments Michael Hornkamp, senior director for high-power products at Power Integrations: "Our highly integrated **SCALE-2** technology eliminates around 85% of the components required by conventional drivers, resulting in a smaller, more reliable, cost-effective product."

The new 2SC0435T2G1-17 dual IGBT-driver core features a connector pin length of 3.1 mm, making it suitable for PCB thickness of 2 mm. Devices are RoHS-compatible and UL508C and UL 60950-1 recognized. Creepage and clearances fulfill IEC60664-1 for reinforced insulation OV2 and PD2. For more details please visit <http://www.power.com/go/2SC0435T>.

About Power Integrations

Power Integrations, Inc. is a leading innovator in semiconductor technologies for high-voltage power conversion. The company's products are key building blocks in the clean-power ecosystem, enabling the generation of renewable energy as well as the efficient transmission and consumption of power in applications ranging from milliwatts to megawatts. For more information please visit www.power.com.

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