

Drivers/High-Temperature ICs



Key Features

- **Rugged design** — Atmel's unique BCD-on-SOI architecture combines high-voltage capability with the benefits of rugged SOI technology: high temperature resistance (T-junctions up to 200°C), excellent radiation hardness, very low leakage currents, low parasitics, high switching frequency, and latch-up immunity.
- **Cost-effective ICs** — Atmel driver ICs require few external components because capabilities such as LIN connectivity and diagnostics are built in. The embedded functionality saves you integration and troubleshooting time and lowers cost of goods.
- **Built-in protection** — All Atmel drivers share the same protective features—over-temperature warning and switch-off, as well as under-voltage, over-current, short-circuit and open-load detection.
- **Extensive technical support** — Demonstration and evaluation kits, detailed documentation and reference designs, and experienced help from Atmel application engineers get you started designing quickly and to market faster.

Drivers/High-Temperature ICs Devices

Device Family	Summary Benefit	Applications	Technologies	Key Parameters
High-Temp Drivers	<p>High-temperature and high-voltage capability</p> <p>Small size</p> <p>Improved latch-up immunity</p> <p>Low leakage currents</p> <p>Up to 200°C junction and 150°C ambient temperatures</p>	Motor control	Atmel 0.8-µm SOI technology SMART-I.S.™	<p>3 to 6 independent driver stages</p> <p>Up to 1.0 amp</p>
Standard Drivers	<p>Freely configurable</p> <p>Standard serial data interface</p>	Motor control		<p>Independent driver stages</p> <p>Up to 1.5 amps</p>

The high-side and low-side driver stages connect via half-bridges or H-bridges on the PC board.

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