

Analog Power 250V N-Ch Power MOSFET

Compact Powerhouse: High-Density 250V Switching in an Industry-Standard SOT-23 Package!

San Jose, California, July 31, 2026 – Analog Power today officially launched the market promotion for the BSS131, a high-efficiency 250V N-channel Power MOSFET designed to deliver exceptional performance in a highly compact form factor. Delivering a typical $R_{DS(on)}$ of 5400 m Ω within the miniature SOT-23 footprint, the BSS131 combines advanced trench gate architecture with low thermal resistance. This balance enables high-speed, low-loss switching for power systems requiring dependable performance up to 250V without sacrificing precious PCB area.

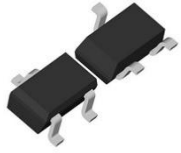
By streamlining high-density power routing, the BSS131 provides engineers with greater design flexibility for compact power converters and load switching logic. Its reduced package volume and optimal thermal path enable seamless integration into modern, space-critical electronics, replacing bulkier discrete components while enhancing overall system power density.

Key Features of the Device Include:

- 250V Voltage Rating engineered for reliable medium-to-high voltage power regulation
- Advanced Low $R_{DS(on)}$ Trench Technology (5400 m Ω typical) to minimize conduction overhead
- Low Thermal Resistance within an industry-standard SOT-23 footprint for superior board-level heat dissipation
- High-Speed Switching Response optimized for high-frequency conversion and precise signal gating
- Robust Silicon Design ensuring long-term thermal and electrical stability in high-density assemblies

Typical Applications:

- White LED Boost Converters needing low-profile, high-voltage switching control
- Automotive Electronic Control Units (ECUs) requiring space-saving, high-reliability discrete MOSFETs
- Industrial DC/DC Converters and modular low-power supplies
- Line-Connected IoT Edge Nodes and auxiliary power routing circuits



The BSS131 5400 m Ω , 250V N-channel MOSFET in the SOT-23 package is now available for sampling and volume production. The preliminary datasheet can be accessed at:

<https://www.analogpowerinc.com/datasheet.php?part=BSS131>

For more information, visit www.analogpowerinc.com.

About Analog Power: Founded in 2002 in San Jose, CA, USA, Analog Power is a leading manufacturer of Power MOSFETs. It produces not only a complete line of N- and P-channel MOSFETs from 12V to 1.5kV, but also application specific MOSFETs that facilitate smaller and higher performance end products. Using tier-1 wafer foundries and assembly and test outsourcing, Analog Power provides the quality and reliability levels of market leaders, yet remains dynamic and customer-driven.

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