

Analog Power 600V N-Ch Depletion Mode MOSFET High-Voltage Performance in an Industry-Standard SOT-23 Package with Advanced Trench Technology!

San Jose, California, June 30, 2026 – Analog Power today officially launched the market promotion for the BSS126, a high-efficiency 600V N-channel Power MOSFET designed to deliver exceptional performance in a highly compact form factor. Featuring a typical $R_{DS(on)}$ of 700Ω , this new device is housed in the widely utilized SOT-23 package. By incorporating advanced low $R_{DS(on)}$ trench technology and delivering low thermal impedance, it provides design engineers with a highly reliable, fast-switching solution optimized for high-voltage and space-constrained electronics.

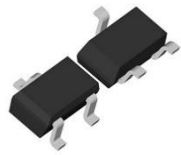
The BSS126 allows designers to drastically maximize board layout efficiency while maintaining superior thermal and voltage management. This advancement greatly simplifies high-density circuit designs, securing outstanding reliability while significantly reducing the overall footprint required for power routing and high-voltage switching compared to traditional, larger package alternatives.

Key Features of the Device Include:

- 20V 600V N-Channel Power MOSFET for efficient high-voltage power regulation and control.
- Low $R_{DS(on)}$ trench technology to minimize conduction losses and maximize overall system efficiency.
- Low thermal impedance for excellent thermal performance within a minimal board space footprint.
- Fast switching speed making it perfectly suited for high-frequency efficiency and precise control.
- Robust semiconductor design ensuring exceptional long-term reliability in compact, high-density environments.

Typical Applications:

- White LED boost converters requiring compact, high-voltage switching capabilities.
- Automotive Systems demanding robust, reliable, and footprint-efficient electronic components.
- Industrial DC/DC Conversion Circuits and low-profile power modules.
- Signal gating and small-signal switching circuits operating on high-voltage lines.
- Space-constrained IoT sensors and embedded hardware applications.



The BSS126 700 Ω , 600V 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=BSS126>

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 20V 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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