

Analog Power 20V N-Ch MOSFET

Ultra-small DFN0.6x0.6 with exposed pad for great thermals & space saving!

San Jose, California, May 31, 2026 – Analog Power today released the AMPMH600UNE, a high-efficiency 20V N-channel Power MOSFET designed to deliver exceptional performance in an ultra-miniaturized form factor. Featuring a typical $R_{DS(on)}$ of 600m Ω , this new device is housed in an ultra-compact DFN0.6X0.6-3EP package. By incorporating a specialized exposed pad, it delivers excellent thermal dissipation capability within a minimal board space footprint, providing design engineers with a highly reliable, low-resistance switching solution optimized for space-constrained and battery-operated electronics.

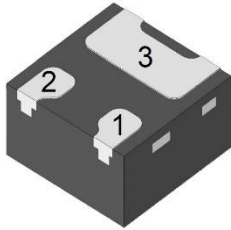
By packing robust 20V capabilities into this ultra-miniature, industry-standard DFN0.6X0.6-3EP package with an exposed pad, the AMPMH600UNE allows designers to drastically maximize board layout efficiency while maintaining superior thermal management. This advancement greatly simplifies high-density circuit designs, securing outstanding heat dissipation while significantly reducing the overall footprint required for power routing and load switching compared to traditional, larger package alternatives.

Key Features of the Device Include:

- 20V N-Channel Power MOSFET for efficient low-voltage power regulation
- Typical $R_{DS(on)}$ = 600m Ω to minimize conduction losses and maximize overall system efficiency
- Ultra-miniature DFN0.6X0.6-3EP package with an exposed pad for excellent thermal performance and minimal board space footprint
- Low threshold voltage making it perfectly suited for direct logic-level gate drive
- Robust semiconductor design ensuring exceptional long-term reliability in compact, high-density environments

Typical Applications:

- Load switching in ultra-portable consumer electronics (smartphones, wearables, and hearables)
- Battery management systems (BMS) and handheld device power routing
- High-efficiency, low-profile DC/DC conversion modules
- Signal gating and small-signal switching circuits
- Space-constrained IoT sensors and embedded hardware



Analog Power's 600m Ω , 20V N-channel MOSFET in the DFN0.6x0.6-3EP package is now available for sampling and volume production. The preliminary datasheet can be accessed at:

<https://www.analogpowerinc.com/datasheet.php?part=AMPMH600UNE>

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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