

# Record-Low RDS N-Channel 100V MOSFET in D2Pak Package for Motor Control

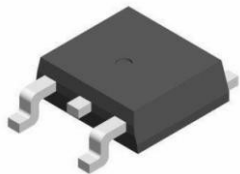


San Jose, California, July 5, 2022, Analog Power today released a new record-low on-resistance 100-V N channel MOSFET in the TO-263 (“D2Pak”) package targeted at the new generation of cordless power tools and other motors operating off a 75-V maximum DC rail. The new device uses Analog Power’s latest generation trench technology to produce a very low on-resistance combined with a 100-V Drain-Source rating.

The 100-V, 4-milliohm AMIF100S201 is designed for high current brushless motor drives where six MOSFETs are typically required to drive the motor, and small size and low on-resistance are key. Since a high number of MOSFETs is used, small footprint is very important to avoid excessive product size, but thermal management also requires very low on-resistance and good thermal path to ensure minimal temperature rise. The AMIF100S201 addresses all these needs. High-efficiency brushless DC motors are gaining acceptance and enabling new energy saving technology in applications from ceiling fans to electric water pumps in engines to industrial control.

“The AMIF100S201 is the latest product in our range of MOSFETs for high current motor control” said Howard Chen, Analog Power’s head of marketing, “Designers are going to higher voltage battery packs to improve performance, and new tools are being introduced in battery powered versions, many of which benefit from higher battery voltages. This new product complements the other low on-resistance 60-V, 80-V and 100-V, N- and P- Channel MOSFETS that Analog Power has developed for motor drive applications to ensure we can offer cost effective solutions for multiple end-products and be a valuable supplier to our customers.”

| Part        | Type | V <sub>DS</sub><br>Max V | V <sub>GS</sub><br>Max V | R <sub>DS</sub> mΩ @ V <sub>GS</sub> =<br>10-V | I <sub>D</sub><br>Max A | P <sub>D</sub><br>W | Package |
|-------------|------|--------------------------|--------------------------|--|-------------------------|---------------------|---------|
| AMIF100S201 | N    | 100                      | 20                       | 4  | 200                     | 300                 | D2Pak   |



Samples and production quantities of the AMIF100S201 are available now, with lead times of 12 weeks for large orders. For more information see [www.analogpowerinc.com](http://www.analogpowerinc.com)

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 900V, 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.

## Contact Information

Philip Dunning

Analog Power Inc

460 N Yosemite Ave, Suite 11

Oakdale CA 95361 USA

[philip.dunning@analogpowerinc.com](mailto:philip.dunning@analogpowerinc.com)