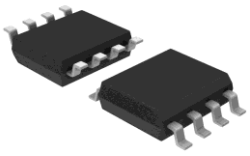
Family of Improved Figure of Merit 150-V N-Channel MOSFETs for Power over Ethernet Applications

San Jose, California, May 2, 2016, Analog Power today released three new products designed for Power over Ethernet Powered Device (PoE PD) power supplies. The products are built using a new generation design and wafer fabrication process that produce very competitive performance figures, yet use high volume standard manufacturing steps, giving both excellent performance and competitive prices.

The 245-milliohm AM4350N, 125-milliohm AM4352N and the 83-milliohm AM4354N are optimized for use as the primary PWM MOSFET in PoE Powered Device power supplies. These MOSFETs have performance twice that of previous Analog Power generations for this application based on RDS x Gate Charge Figure of Merit. Improved Figure of Merit results in higher efficiency power supplies, which in turn results in more power being available for the load powered by PoE and lower temperatures on the PC board.

"The AM4350N, AM4352N and AM4354N are three new members of our PoE solutions family and together make a full range of SO-8 options." said Howard Chen, Analog Power's head of marketing, "We continue to develop new products for PoE Powered Devices as we have leadership parts for four applications in theses circuits: primary PWM, active clamp, synchronous rectification and low voltage power routing/switching. The on-resistances were chosen to provide cost effective optimized solutions for 13W PoE .af standard, 25W PoE .at standard, and 30-50W applications. The SO-8 package is a cost effective choice for this application and complements the family of TSOP-6 and DFN5x6 devices."

Part	Type	V_{DS} Max V	V_{GS} Max V	$R_{DS(on)}$ mΩ @ V_{GS} = 10V	$R_{DS(on)}$ mΩ @ V_{GS} = 5.5V	I_D Max A	Q_G nC	P_D W
AM4350N	Single N	150	20	245	275	3	4.6	3.1
AM4352N	Single N	150	20	125	140	4.1	7	3.1
AM4354N	Single N	150	20	83	105	5	11	3.1



Samples and production quantities of the AM4350N, AM4352N, and AM4354N are available now, with lead times of 12 weeks for large orders. For more information see 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 20V to 800V, 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 tier-1 quality and reliability levels, yet remains dynamic and customer-driven.

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