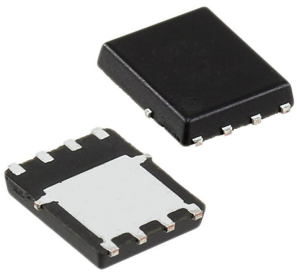
Improved Figure of Merit 30-V N-Channel MOSFETs for Synchronous Rectification

San Jose, California, May 6, 2016, Analog Power today released two new products designed for cost effective Point of Load DC to DC conversion and synchronous rectifier applications. The new products use new cell designs and high volume packaging techniques that result in very competitive performance figures yet use high volume standard manufacturing processes, giving good performance and competitive prices.

The 30-V, 1.9-milliohm AMR438N and the 30-V 2.8-milliohm AM7426N are designed for use as the low side synchronous rectifier in 12-V input synchronous buck DC to DC converters and the output synchronous rectifier in other medium-current power supply applications. Both products have a figure of merit approximately 25% better than Analog Power's prior generation. These two new products provide excellent solutions for a wide range of output currents from 6A through 18A.

"The AMR438N and AM7426N use standard manufacturing processes yet provide excellent figure of merit" said Howard Chen, Analog Power's head of marketing, "The on-resistances were chosen to provide cost effective optimized solutions for high volume applications such as telecom boards and mid-range video cards. Many of our customers want cost effective multi-sourced MOSFETs for these high volume applications and we provide excellent performance for such applications with these two products and the rest of the Analog Power product line."

Part	Type	V_{DS} Max V	V_{GS} Max V	$R_{DS(on)}$ m Ω @ V_{GS} = 10-V	$R_{DS(on)}$ m Ω @ V_{GS} = 4.5-V	I_D Max A	Q_G nC	P_D W	Package
AM7426N	Single N	30	20	2.8	4.8	35	35	5	DFN5x6 / SOIC-8PP
AMR438N	Single N	30	20	1.9	2.4	42	55	5	



Samples and production quantities of the AM7426N and AMR438N 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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