

# 100V P-Channel MOSFET for Inrush Limiting And High Side Power Routing

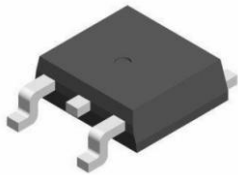


San Jose, California, September 1, 2016, Analog Power today released a MOSFET optimized for inrush limiting circuits on hot swappable cards and other circuits with a current limiting switch. The new device uses Analog Power's new 100-V P-Channel process to create a solution that requires minimal external components to control loads such as a 48-V bus.

The 100-V, 19-milliohm P-Channel AM90P10-19B is designed for high side switching circuits and eliminates the complicated gate drive that N-Channel MOSFETs require. The addition of only two resistors and one capacitor creates a rugged inrush limiter with a small PC board footprint. Packaged in a TO-263 D2Pak, the product has low thermal impedance to ensure low operating temperature and rugged SOA. Analog Power is world leader in high voltage P-Channel MOSFETs which require a more complex manufacturing process than low voltage N-Channel devices. The added cost per conductance of P-Channel MOSFETs is minimized by Analog Power's proprietary low on-resistance process and is outweighed by the simplicity of driving the devices and reduction in external components required.

“The AM90P10-19B is a new product optimized for this specific application.” said Howard Chen, Analog Power's head of marketing, “The on-resistance, voltage rating and package for this part were picked to create a rugged, cost-effective solution for high side switching and regulation for high-current loads. The Analog Power AM90P10-60B has been a successful product for us in these applications but our customers told us they wanted a lower voltage drop and higher power capability; we listened and introduced this flagship product.”

Part	Type	V <sub>DS</sub> Max V	V <sub>GS</sub> Max V	R <sub>DS(on)</sub> mΩ @ V <sub>GS</sub> =		I <sub>D</sub> Max A	P <sub>D</sub> W	Package
				10-V	4.5-V			
AM90P10-19B	P	-100	20	19	21	90	300	D2Pak



Samples and production quantities of the AM90P10-19B 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 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 the quality and reliability levels of market leaders, yet remains dynamic and customer-driven.

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