

Robust Automotive-Qualified MOSFETs Optimized to Deliver Low On-State Resistance



International Rectifier, IR announces the company's first dedicated family of automotive qualified MOSFETs for a range of applications requiring low on-state resistance ($R_{DS(on)}$), including Electric Power Steering (EPS), Integrated Starter Alternator (ISA) pump and motor control, DC-DC conversion, battery switch, and other heavy loads on Internal Combustion Engine (ICE) and hybrid vehicle platforms. The devices, built on IR's proven Gen 10.2 technology, deliver on-state resistance as low as 1.0 mOhm $R_{DS(on)}$ (maximum), and are available across a range of voltages from 24V to 100V in a variety of Surface Mount Device (SMD) and through-hole packages. Several of the devices feature revised maximum current ratings of up to 240A in a D2Pak-7P and 195A in a D2Pak. Optimized to deliver low on-state resistance, and available in a wide range of voltages and packages, these automotive MOSFETs feature a passivation layer on the surface of the device to provide improved reliability.

Source URL (retrieved on 03/06/2015 - 5:16am):

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