

Intelligent Power Switch Includes Proprietary Control Feature



International Rectifier today introduced the AUIR3330S Intelligent Power Switch (IPS) with a proprietary active di/dt control feature that significantly reduces conducted EMI and switching losses to simplify design and reduce overall system cost in automotive motor drive applications.

The new 40 V high-side device combines bootstrap regulator, charge pump and high-side driver into a single package to offer a highly integrated solution. The load can be driven up to 40 kHz at 100 percent of duty cycle. Additionally, the AUIR3330S features programmable over-current and over-temperature protection required by applications operating in harsh automotive environments such as pumps and fans. The AUIR3330S also features current sensing feedback, a diagnostic function, very low current consumption in sleep mode and ESD protection.

“IR’s innovative active di/dt control drastically reduces conducted EMI on the input supply without increasing switching losses, enabling a reduction in the size of the EMI filter and the heat sink for more efficient compact motor systems,” said David Jacquiod, product marketing manager, IR’s Automotive Products Business Unit.

The device is qualified according to AEC-Q100 standards, features an environmentally friendly, lead-free and RoHS compliant bill of materials, and is part of IR’s automotive quality initiative targeting zero defects.

[**Specifications**](#)

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Part Number	Package	Rθj-c	Programmable Over-current shutdown	Rθj	Breakdown voltage	SOFT Protection type
AUIR3330S	D2PAK 7-Lead	max at 25°C	Yes	55°C	60V	Shutdown

Datasheets and qualification standards are available on the International Rectifier website at www.irf.com [1].

Availability and Pricing

Available in a D2PAK package, pricing for the AUIR3330S begins at US \$1.50 in 100,000-unit quantities. Production orders are available immediately. Prices are subject to change.

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[1] <http://www.irf.com>