IR's AUIPS7111S Intelligent Power Switch Delivers Ultra Low On-State Resistance for 24V Automotive Applications

International Rectifier

EL SEGUNDO, Calif. — International Rectifier, IR® (NYSE: IRF), a world leader in power management technology, today introduced the AUIPS7111S high-side intelligent power switch with ultra low on-state resistance (RDS(on)) for harsh 24V automotive environments such as under-the-hood truck junction boxes.

The AUIPS7111S features an RDS(on) of 7.5 mOhm (max) at 25°C, and offers a comprehensive set of protection features including over-current and over-temperature shutdown in addition to an active clamp circuit to ensure safe reliable switching, and protection under repetitive short circuit conditions.

"With its ultra low RDS(on) and comprehensive set of protection features, the AUIPS7111S provides an efficient and reliable solution for harsh 24V automotive environments," said David Jacquinod, product marketing manager, IR's Automotive Products Business Unit.

The AUIPS7111S provides an accurate current feedback of +/- 5% over the entire operating temperature range while turn-on and off-time are optimized to minimize noise in EMI sensitive automotive applications. The 65V device also offers ESD protection and low current and logic level input.

The new device is qualified according to AEC-Q10x 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

Part Number	Package	Rds(on) (max at 25°C)	Over-current shutdown (min.)	Tj	Clamping Voltage	OC/OT Protection type
AUIPS7111S [1]	D2Pak	7.5mOhm	30A	165°C	65V	Shutdown

Availability and Pricing

Available in a D2PAK package, pricing for the AUIPS7111S begins at US $1.90 each in 100,000-unit quantities. Production orders are available immediately. The automotive-qualified device is lead-free and RoHS compliant. Prices are subject to change.

SOURCE [2]

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Links:
[1] https://ec.irf.com/v6/en/US/adirect/ir?cmd=catProductDetailFrame&productID=AUIPS7111S
[2] http://www.irf.com/whats-new/nr100304.html