

IR's FastIRFET™ Family Delivers Industry Leading Efficiency for DC-DC Synchronous Buck Applications

EL SEGUNDO, Calif. — International Rectifier, IR® (NYSE: IRF), a world leader in power management technology, today announced the introduction of the 25V FastIRFET™ family of innovative power MOSFETs for DC-DC synchronous buck applications including advanced telecom and netcom equipment, servers, graphic cards, desktop, ultrabook and notebook computers.

The FastIRFET™ family features IR's latest generation silicon in an industry standard PQFN package that delivers benchmark power density for discrete DC-DC converters. The family includes the IRFH4201 that offers on-state resistance (RDS(on)) as low as 0.7 milliOhms, and the IRFH4210D and IRFH4213D monolithic FETKY® devices designed to reduce ringing and further improve system efficiency.



"The advanced 25V FastIRFET™ MOSFETs offer industry leading power density for discrete high performance DC-DC switching applications," said Stephane Ernoux, Director of Marketing, IR's Power Management Devices Business Unit. "These devices complement our integrated SupIRbuck®, PowIRstage™ and power block platforms to offer designers a broad array of high performance DC-DC options."

Optimized for 5V gate drive applications, IR's FastIRFET™ devices work with any controller or driver to offer design flexibility while delivering higher current, efficiency and frequency capability in a small footprint. The devices are available in industry standard 5x6 and 3.3x3.3mm PQFN packages that feature an environmentally friendly, lead-free and RoHS compliant bill of materials.

Specifications

Package	Part Number	Id max @ 25C	RDSon typical / max		QG typical @ 4.5V (nC)	QGD typical @ 4.5V (nC)
			@ 10V (mΩ)	@ 4.5V (mΩ)		
PQFN 5x6	IRFH4201	100A	0.70 / 0.95	1.00 / 1.25	46	16
	IRFH4210D (FETKY)		0.85 / 1.10	1.10 / 1.35	36	13
	IRFH4210		1.10 / 1.35	1.5 / 1.9	26	9.2
	IRFH4213D (FETKY)		1.10 / 1.35	1.5 / 1.9	26	9.2
	IRFH4213		3.5 / 4.6	5.6 / 7.3	8.2	3.1
	IRFH4234		1.7 / 2.2	2.6 / 3.3	16	5.8
PQFN 3.3x3.3	IRFHM4226	40A	3.5 / 4.6	5.6 / 7.3	8.2	3.1
	IRFHM4234					

Datasheets are available via the part number links found in the table above.

Availability and Pricing

SEARCH

- Part Search
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APPLICATIONS

- AC-DC
- Appliances
- Automotive
- DC-DC
- Lighting
- NetCom
- A&D/HiRel
- Audio
- Desktop/Server
- Enterprise Power
- Motor Control
- Portables

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