International Rectifier

Product Line Overview

Product Line



Energy Saving Products

Integrated design platforms that enable customers to add energy-conserving features that achieve lower operating energy costs and manufacturing Bill of Material (BOM) costs.

Applications

- Appliances
- Audio
- Display
- IndustrialLighting
- SMPS

Key Products

- Digital Control ICs
- High-Voltage ICs
- IGBTs
- IRAM Integrated Power Modules
- MERs



Enterprise Power

Optimized power management system solutions that deliver benchmark power density, efficiency and performance in enterprise power.

- Servers
- Storage Networks
- Switchers & Routers
- Workstations
- Notebooks
- Game Stations
- Set-Top Box

• DirectFET® plus

- Low-Voltage ICs
- Sup/RBuck®
- iPOWIR®
- PowIRstage®
- CHiL Digital Controllers



Automotive

Automotive grade power management solutions qualified to meet the needs of 12V, 24V and HEV/EV applications with a zero defect goal.

- AC and DC Motor Drives
- Powertrain / Engine control
- Body Electronics
- Lighting
- Class D Audio
- Heavy Loads and Actuators

Automotive Qualified:

- HEXFET® Power MOSFETs
- Intelligent Power Switches
- Driver ICs
- IGBTs
- DirectFET®2



Benchmark MOSFETs

IR continues to lead the industry by offering power MOSFETs with the lowest $R_{\rm DS(on)}$ and widest range of packages up to 250V for a diverse range of applications.

- Audio
- Computing
- Communications
- Motor Control
- Power Supply
- Synchronous Rectification

Discrete HEXFET® MOSFETs

- Dual HEXFET® MOSFETs
- FETKY®



HiKe

Our discrete components, complex hybrid power module assemblies and rugged DC-DC converters utilize leading-edge power technology which, together with demanding environmental specifications help engineers to meet their toughest design challenges.

- Space
- Military
- Commercial Aviation
- Rugged Industrial
- Medical

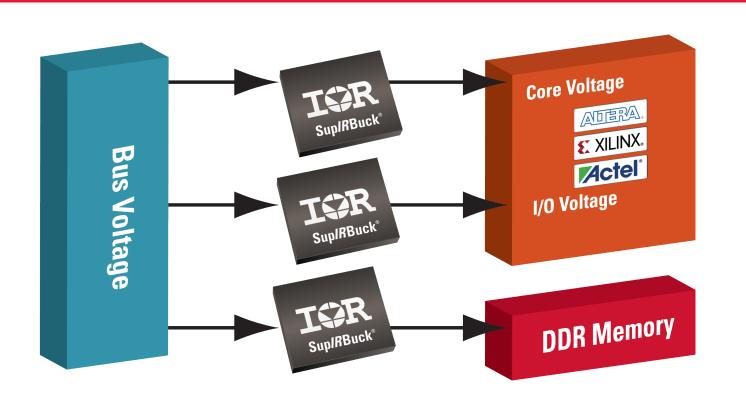
- RAD-Hard MOSFETs
- Power Modules/Hybrid Solutions
- Motor Control Solutions
- DC-DC Converters

FPGA POL Voltage Regulator Product Selection Guide



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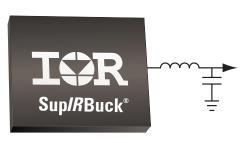
	1.5 - 16V		241/
	5V bias required	Integrated LDO	24V
1-3A	IR3853		
	IR3843W		
4-6A	IR3856		IR3473
	IR3842W		IN3473
	IR3832W	IR3839	
7-10A	IR3859		IR3475
	IR3841W		
	IR3831W	IR3838	
11-15A			
	IR3840W		IR3476, IR3477
		IR3837	
16-35A	iP1827, iP1837		

5x6 mm with

DDR Tracking

7.7 x7.7 mm

iPOWIR ® package



Common Features

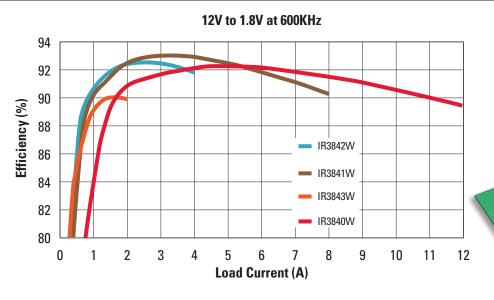
- Sequencing
- Programmable frequency up to 1.5 MHz for compact design
- Integrated protection features including prebias, thermal protection, programmable over-current, and programmable hiccup current limit

Compatible with all common FPGAs platforms including:

- Virtex
- Cyclone
- Stratix
- Spartan

12-35A 2-15A 1-10A • Other Can be used to generate core voltage, Sup///Buck® *iPOWIR®* I/O voltage. Devices available with DDR tracking capability for memory power 35 15 Current (A)

Size(mm)



5x6 mm package

Common series footprint enables cut and paste design for varying current ranges

Evaluation Development Kit Includes

- Development board
- User guide
- Datasheet

Gerber files



Start your design @ mypower.irf.com/supirbuck

Sup/RBuck® Online Design **Tool Simplifies Design**

Comprehensive online design tool featuring parametric search, schematic capture, AC, Steady State, Transient Analysis, Thermal Analysis, BOM creation, and more...



4x5 mm package