International Rectifier Update

Annual Meeting of the Stockholders

November 4, 2013
This Investor Presentation contains “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995. These statements relate to expectations concerning matters that (a) are not historical facts, (b) predict or forecast future events or results, or (c) embody assumptions that may prove to have been inaccurate. These forward-looking statements involve risks, uncertainties and assumptions. When we use words such as “believe,” “expect,” “anticipate” or similar expressions, we are making forward-looking statements. Although we believe that the expectations reflected in such forward-looking statements are reasonable, we cannot give readers any assurance that such expectations will prove correct. The actual results may differ materially from those anticipated in the forward-looking statements as a result of numerous factors, many of which are beyond our control. Important factors that could cause actual results to differ materially from our expectations include, but are not limited to, the factors discussed in the sections entitled “Risk Factors” and entitled “Critical Accounting Policies and Estimates” within “Management’s Discussion and Analysis of Financial Condition and Results of Operations” in our filings with the Securities and Exchange Commission, including our most recent reports on Form 10-K and 10-Q. All forward-looking statements attributable to the Company are expressly qualified in their entirety by the factors that may cause actual results to differ materially from anticipated results. Readers are cautioned not to place undue reliance on these forward-looking statements, which reflect our opinion only as of the date hereof. We undertake no duty or obligation to revise these forward-looking statements. Readers should carefully review the risk factors described in this document as well as in other documents we file from time to time with the Securities and Exchange Commission.
Our Strategy

1. **Leadership in core Power Management technologies**
   - Benchmark LV- and MV-MOSFET and IGBT process technology
   - Digital Power Management
     - CHiL controllers + benchmark LV MOSFETs
   - Benchmark industrial IGBTs for Variable Speed Motion
   - Automotive grade IGBTs for H(EV) drive train technology
   - GaN-on-Si – disruptive power switching technology

2. **Efficient and flexible manufacturing and supply chain**
   - Front-end model moving to 50% wafers sourced externally
   - Back-end model moving to 70% sourced externally

3. **Strategic alignment and partnership with Tier 1 OEMs, ODMs, and Distributors**
Key Technologies Driving Our Future Growth

**Low and mid voltage MOSFETs**
- Industrial
- Power Supplies
- Consumer & Computing
- HiRel

**High Voltage IGBTs and ICs**
- Appliances
- Industrial
- Motion Control
- Power Modules for Appliance and Industrial

**Revolutionary GaN Technology**
- Higher efficiency
  - Smaller footprint
  - Lower system cost
  - Strong IP portfolio
  - Engagements with tier one customers for early adoption

**Digital Power Control**
- Digital Controllers
- High Performance Computing
- Servers

**Automotive IGBTs**
- COOlirIGBT™
- COOlirR²Bridge™
Industry Leading Low & Medium Voltage MOSFET Portfolio Serving Broad Range of Markets

Industrial applications
(AC/DC power supply, DC motors, solar inverter, UPS, …)

Consumer and mobile applications
(computer, battery pack, hand-held, …)

Industrial applications
(AC/DC power supply, lighting, …)
### Top 10 Suppliers of Power MOSFETs - 2012

<table>
<thead>
<tr>
<th>Rank</th>
<th>2012</th>
<th>2011</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>International Rectifier</td>
</tr>
<tr>
<td>2</td>
<td>5</td>
<td>2</td>
<td>Renesas Electronics Corporation</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>2</td>
<td>Toshiba</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td>3</td>
<td>Infineon Technologies</td>
</tr>
<tr>
<td>5</td>
<td>4</td>
<td>4</td>
<td>Fairchild Semiconductor</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>6</td>
<td>Vishay Intertechnology</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
<td>7</td>
<td>STMicroelectronics</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>8</td>
<td>Alpha &amp; Omega Semiconductor</td>
</tr>
<tr>
<td>9</td>
<td>8</td>
<td>8</td>
<td>ON Semiconductor</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
<td>10</td>
<td>NXP</td>
</tr>
</tbody>
</table>

#1 supplier of power MOSFETs in 2012 with 11% of the $5.9B market segment

IHS iSuppli | March 2013
Digital Power Management

Complete End-to-End DC-DC Solution

CHiL® Digital Control

PowIRstage®

Power Management

Control

Driver

Power Conversion

SupIRBuck® and iPOWIR®

Leading Digital Power Management Revolution with a Complete End-to-End DC-DC Solution
Initial Target Segment – High Performance Computing

**Significant Share Gain in Upcoming Grantley Server Platform**

**Digital Communication**
- Real time monitoring of currents, voltages and faults
- Configuration of controllers to meet system requirements
- Communication between the system/CPU's and the power management chips

**Digital Control**
- Cost effective
- Easy to design and use
- IR has the lowest quiescent power on par with Analog Controllers

Solutions for leading Server and Desktop CPU’s from Intel, AMD

Processor Core Power
- 30 – 200A

IR solution can deliver 50A per phase – Highest in the industry

Processor Graphics / Server Agent
- 10 – 35A

- Solutions for Graphics processors (GPU) from ATI (AMD) and Nvidia.
Longer Term – Extending Digital Power Management into Other IR Market Applications

- Computing/Servers (2011-2013)
- Appliance/Industrial (2014)
- Automotive (2014/2015)

Server

Desktop

Graphics

Appliance

Industrial

Automotive
High Voltage IGBT and IC Technologies

IGBTs

Digital controller & High-Voltage IC

Intelligent Power Module (IRAM)

uIPM

New Market Segment
IR’s IGBT and HVIC Technology Enabling Market Adoption of Variable Speed Motors

Key factors
- 2015 market forecast for the variable speed motor control is 3x of 2010 volumes
- The inverterization of small appliances drives the demand for compact and economical power stage solutions.

### World Market for Inverter-based Variable Speed Control MHAs by Type

<table>
<thead>
<tr>
<th></th>
<th>2012</th>
<th>2017</th>
<th>'12-'17 CAGR</th>
</tr>
</thead>
<tbody>
<tr>
<td>% with Inverter-based VSD</td>
<td>23.30%</td>
<td>44.50%</td>
<td>13.80%</td>
</tr>
<tr>
<td>Average VSD Penetration across MHA</td>
<td>23.30%</td>
<td>44.50%</td>
<td>13.80%</td>
</tr>
<tr>
<td>Inverter-based VSD MHA Shipments</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Washing Machines</td>
<td>21.90%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fridges/Freezers</td>
<td>23.00%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dishwashers</td>
<td>21.90%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Room Air Conditioners</td>
<td>16.70%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Microwave Ovens</td>
<td>20.60%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**World Total VSD MHA Shipments (kU)**

98,477 239,575 19.50%

Source: IHS Oct-13
- Micro Inverter for Solar Conversion
- Motor Drive variable speed applications for light loads 20W-250W for example in:
  - Pumps
  - Compressors
  - Fans

The **μIPM™** Advantage

- Simpler
- Smaller
- No Heat Sink
- Lower Cost
Existing system: 91 component count

IR’s new system: 31 component count
Automotive Electrification Presents Significant Opportunity For IR

Strong growth for EV and HEV vehicles
Sales projected to exceed 5 Million annual units by 2017*

(H)EV Powertrain Semi Content expected to grow 3X by 2015*
Additional Power Semiconductor (H)EV drive train content: ~300$

First generations of industrial solutions being replaced by automotive suitable performance modules

Significant Growth Opportunity for IR’s IGBT Technology

*Deutsche Bank Report on the EV/HEV Opportunity, 10/9/13
## (H)EV Vehicles Significantly Expand TAM for Power Semiconductor Companies

<table>
<thead>
<tr>
<th>Automobile Type</th>
<th>~Semiconductor Content Per Automobile</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MOSFETs and IGBTs</td>
<td>Analog ICs</td>
</tr>
<tr>
<td>Economy (2013)</td>
<td>$17</td>
<td>$12</td>
</tr>
<tr>
<td>Midrange (2013)</td>
<td>$18</td>
<td>$15</td>
</tr>
<tr>
<td>Luxury Car (2013)</td>
<td>$20</td>
<td>$23</td>
</tr>
<tr>
<td>Midrange Hybrid (2013)</td>
<td>$193</td>
<td>$42</td>
</tr>
</tbody>
</table>

New hybrid and electric vehicle platforms open up a significantly greater percentage of the semiconductor content per car.

Source: WSTS and summary from several Automotive System Suppliers and other sources
IR’s Automotive IGBT Technology Meets Advanced Requirements of the Next Generation (H)EV Vehicles

**IGBT & Diode:**
increased Robustness vs. current technology
(Breakdown Voltage, $T_{j\text{max}}$, $T_{\text{shortcircuit}}$, temperature coefficients)

**Package Technology:**
better Reliability & Thermal performance vs. state of the art
(bond wireless, dual-sided cooling)

**Power Modules:**
 improved form-factors, scalability, power density and thermals for system integration
(dual-cooling, low parasitics)

COOlIR™

COOlIR2Die™

COOilR2Bridge™

COOlIR(2)™ addresses (H)EV Requirements on all Integration Levels
## 233 Mile Road Test on Single Charge Using IR IGBTs

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Power</th>
<th>Weight</th>
<th>0-60mph</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMW M5</td>
<td>$92k</td>
<td>560hp</td>
<td>4384lb</td>
<td>3.7s</td>
</tr>
<tr>
<td>CLS63AMG</td>
<td>$96k</td>
<td>550hp</td>
<td>4256lb</td>
<td>3.9s</td>
</tr>
<tr>
<td>Panamera Turbo</td>
<td>$176k</td>
<td>550hp</td>
<td>4388lb</td>
<td>3.5s</td>
</tr>
<tr>
<td>Tesla S P85</td>
<td>$105k</td>
<td>416hp</td>
<td>4766lb</td>
<td>3.9s</td>
</tr>
</tbody>
</table>

**Tesla Model S P85**
- 78.2kW-hours
- Equivalent to 2.3 gallons gas/100 mpg
- $10.32 (electricity)

**BMW 528i**
- 7.9 gallons gas
- 30 mpg
- $34.55 (gasoline)

© Brian Vance / Motor Trend
IR Automotive IGBT Technology and Support Recently Recognized by the EV Market Segment Leader
GaN Technology Expected to Revolutionize Power Management

What is GaN?

*High Electron Mobility Transistor*
Disruptive GaN Technology to Revolutionize Power Management

Possible Applications*

Power Management
- IT & Consumer
  - PFC Power Supplies
  - Consumer Electronics and Computing

Power Switching
- Automotive
  - DC/AC Inverter
  - EV/HEV
- Industry
  - DC/DC Converter
  - PV Inverter
  - Motor Control
  - Inverter
  - UPS

 voltage regulator ICs / Drivers
 Discrete transistor & diode

 30V
 Discrete Power transistor & diode / power modules / IPM

 600V
 GaN Power Electronics

1200V

*Source: Yole Power GaN Report: November 2010
GaN: An Industry First...

Samsung 7.1 Channel Home Theater System

Model HT-F9750W features an IR Gallium Nitride powered amplifier that delivers pure sound.
HV GaN Based μIPM™ … What the Future Could Look Like

Current 400W Inverter Board

6A IRAM with Heatsink

μIPM™ GaN Based Prototype

500V/160mohm GaN in MCM without Heatsink
Efficient and Flexible Manufacturing

**Internal Manufacturing (Front End)**

**Foundry Manufacturing Partners (Primary)**

**Assembly and Test Partners (Back End)**

<table>
<thead>
<tr>
<th>Year</th>
<th>Future</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>98%</td>
<td>40%</td>
</tr>
<tr>
<td>2013</td>
<td>85%</td>
<td>~70%</td>
</tr>
</tbody>
</table>

% of total revenue
Internal Manufacturing Footprint

- Newport, Wales, UK
  - Fab 11
  - (Fab 10 re-sized by Mid 2015)

- Temecula, CA
  - Fab 2

- San Jose, CA
  - HiRel

- Leominster, MA
  - HiRel

- Mesa, AZ
  - Assembly

- Tijuana, Mexico

- Singapore
  - WLP Processing & Logistics

- International Rectifier
Global Sales and FAE Organization to Serve Complex Customer and Channel Requirements

Effective management of both sides is a “must” in meeting customers’ needs

Source: LODP & SAP
Our Current Thoughts and Expectations for CY2014
Figure 1. Global GDP Growth
(Percent; quarter over quarter, annualized)

Emerging market and developing economies
World
Advanced economies

Source: IMF staff estimates.
Purchasing Manager Indices (PMI) Worldwide Pointing in the Right Direction

United States

- 4th consecutive month of expansion
- Overall US economy gaining traction
- Growth at fastest pace in last 2 years

China

- China showing recovery
  - PMI back above 50
  - HSBC expects upside surprises to growth in the next several months

Eurozone

- Seeing signs of turnaround
  - PMI near 26 month high
  - Growth improves in Germany, Netherlands, Italy, Austria and Ireland

A reading above 50 signals expansion in activity and a reading below 50 signals a contraction in activity.
Semiconductor Units 6% Below Normalized End Demand

Source: SIA, Goldman Sachs Global Investment Research
Inventory Supply Chain Remains Lean

Source: Company Reports and Susquehanna Financial Group
We May be Seeing the Beginning of Recovery (1)

IR Quarterly Revenues ($M)

*Source: Company Filings

Sep’11-Mar’13 “the Great Recession” in Power Semis
We May be Seeing the Beginning of Recovery (2)

*Source: Company Filings, June 2013 revenue adjusted to 13 weeks*
Summary

IR well positioned for future growth

• High Voltage Products:
  o Benchmark IGBT Platform
  o New μMCM technologies

• Digital Power Control

• Next Generation Low- and Mid-Voltage MOSFETs

• Gallium Nitride – Re-entry into High Voltage

Revamping manufacturing footprint and supply chain to increase flexibility and reliability of our supply chain

Strong balance sheet

• $475M+ in cash, cash equivalents and investments
• No debt