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QUALITY POLICY

Renesas Electronics Group

Quality Policy

We aim to deliver customer satisfaction and enhance society by providing highly reliable and high-quality products and services.

We abide by the following principles in all stages of our business activities—including sales, design, development and manufacturing—in accordance with our corporate quality management system.

We will:
- Comply with all applicable legal and regulatory requirements
- Enhance product safety and trust
- Commit to continuously improve the quality of products and services
- Strive to continually improve our quality management system
## COMPANY PROFILE

<table>
<thead>
<tr>
<th><strong>Company Name</strong></th>
<th>Renesas Electronics Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Headquarters</strong></td>
<td>TOYOSU FORESIA, 3-2-24 Toyosu, Koto-ku, Tokyo 135-0061, Japan</td>
</tr>
<tr>
<td><strong>Capital Stock</strong></td>
<td>10 billion yen</td>
</tr>
<tr>
<td><strong>Established</strong></td>
<td>November 1, 2002 (Started Operation on April 1, 2010)</td>
</tr>
<tr>
<td><strong>Major Operations</strong></td>
<td>Research, development, design, manufacture, sale, and servicing of semiconductor products</td>
</tr>
<tr>
<td><strong>Employee</strong></td>
<td>20,472 (Consolidated, as of March 31, 2018)</td>
</tr>
<tr>
<td><strong>Representative Director</strong></td>
<td>Tetsuya Tsurumaru, Representative Director, Chairman</td>
</tr>
<tr>
<td></td>
<td>Bunsei Kure, Representative Director, President and CEO</td>
</tr>
<tr>
<td><strong>Stock Code</strong></td>
<td>Tokyo Stock Exchange, First Section (Since July 24, 2003, TSE:6723)</td>
</tr>
<tr>
<td><strong>Website</strong></td>
<td><a href="http://www.renesas.com">www.renesas.com</a></td>
</tr>
</tbody>
</table>
RENESAS GROUP CORPORATE VISION AND MISSION

VISION

Renesas creates leading semiconductor solutions that spark innovation for a connected world, building a trusted brand we can be proud of.

MISSION

1. Drive progress toward a safer, healthier, greener, and smarter world.
2. Deliver creative semiconductor solutions and support that meet and exceed customer expectations.
3. Strengthen our offering to customers in focus segments through strategic partnerships, alliances and acquisitions.
4. Develop a global culture that encourages open communication, collaboration, and respect for diversity.
5. Seek continuous improvement in everything we do.
# LEADERSHIP

## ORGANIZATION STRUCTURE (AS OF JULY 1, 2018)

<table>
<thead>
<tr>
<th>Automotive Solution Business</th>
<th>Industrial Solution Business</th>
<th>Broad-based Solution Business</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shingo Yamamoto EVP</td>
<td>Yoshikazu Yokota EVP</td>
<td>Necip Sayiner EVP</td>
</tr>
<tr>
<td>Olav Schulte SVP</td>
<td>Michael Hannawald SVP</td>
<td>Hiroto Nitta SVP</td>
</tr>
<tr>
<td>Shinichi Yoshioka SVP</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Outside Director:** Tetsuro Toyoda, Jiro Iwasaki

**Outside Corporate Auditor:** Kazuki Fukuda, Kazuyoshi Yamazaki (part-time), Noboru Yamamoto (part-time), Takeshi Sekine (part-time)

**CEO:** Chief Executive Officer / **CFO:** Chief Financial Officer / **EVP:** Executive Vice President / **SVP:** Senior Vice President

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GLOBAL SALES & MANUFACTURING NETWORK
(AS OF JUNE 1, 2018)

- Global sales network operating in more than 20 countries
- 14 manufacturing facilities owned in Japan, China, Southeast Asia, and the US
- Global partner’s sites such as TSMC and GLOBALFOUNDRIES

- Headquarters
- Main sales & branch offices
- Manufacturing sites (Front-end: 7, Back-end: 7)
- Design and Application Technology Companies, Manufacturing and Engineering Service Companies
ORGANIZATION OF QUALITY ASSURANCE DIVISION

Quality Assurance Division

- High-end MCU Quality Assurance Dept.
- MCU & SoC Quality Assurance Dept.
- Discrete Devices Quality Assurance Dept.
- Mixed Signal Quality Assurance Dept.
- Strategic Quality Planning Dept.
- Quality Control Dept.
- Reliability & Qualification Dept.
QUALITY ASSURANCE SYSTEM

We build quality into the products from the development stage, through continuous improvement of the production processes, in order for more competitive quality and reliability. In addition to above, we have an established comprehensive quality assurance system with product quality monitoring and customer support on quality, serving for customer’s confidence in our products.

In the Development, Design / Trial run, Production process, Test/inspection, and Customer stages, the following areas are dealt with:

- **Development**
  - Process Quality Control
  - Design Quality Control
  - Customer Support

- **Design / Trial run**
  - Process Quality Control
  - Design Quality Control
  - Customer Support

- **Production process**
  - Process Quality Control
  - Design Quality Control
  - Customer Support

- **Test/inspection**
  - Process Quality Control
  - Design Quality Control
  - Customer Support

- **Customer**
  - Process Quality Control
  - Design Quality Control
  - Customer Support

**Customer Support**

- Provision of Quality information
- Failure analysis
- Qualification support
- Quality meetings with customer

Customer Support ensuring customer’s confidence through provision of easy-to-understand documents and technical information, engineering support activities and quality support for customer.

**Quality and Reliability improvement**

- Failure analysis
- Reliability technology
- Reliability physics
- Data collection

Activities for built-in quality by process control using scientific and statistical methods and by 4M control. Activities for preventing defective products from leaving the manufacturing plant by detecting unusual data trends and signs of abnormalities at an early stage.

**Process Quality Control**

- Document control
- Education
- Operator qual.
- Management of facilities and measuring equipment
- Change control
- Environment management
- Parts/material management
- SPC
- Yield improvement
- Abnormality Control

Activities for built-in quality by process control using scientific and statistical methods and by 4M control. Activities for preventing defective products from leaving the manufacturing plant by detecting unusual data trends and signs of abnormalities at an early stage.

**Product Quality Control**

- Verification by quality assurance test
- Ongoing reliability test
- Warehousing and shipping control
- Product quality and reliability level monitoring with sampling inspections and reliability testing

**QUALITY ASSURANCE SYSTEM**
QUALITY ASSURANCE FLOW

Customer Requirement → Market Research → Product Planning → Development Requirements → Marketing Strategy

Development & Design

Design and Development → Design Review → Electrical Characteristics Approval

Trial Production

Quality Qualification → Release to Mass Production → Technical and Control Specification

Mass Production

Purchase Order → Sales Planning → Production Planning

Shipment

Quality improvement activity / quality information

Market & Customer

Occurrence of failure → Failure analysis and corrective action → Reception / Failure Analysis / Reporting

Manufacturing Plant

Process/Package Structure Development → Process/package Design Approval → Design Manual Establishment → Trial Production

Incoming Inspection → Production → Inspection
CHANGE CONTROL SYSTEM


- Proposal of the change plan
- Advance Notification
- Approval on the Change Plan
- Confirmation of Customer Reply
- Trial-run and Evaluation
- Preparation of Samples and Data
- Review on the evaluation result
- Report
- Change Approval
- Confirmation of Customer reply
- Decision and Notification of Change
- MP Ramp-stage Control
- Mass Production
CORRECTIVE ACTION TREATMENT FLOW

1. **Notification on Defective Product Shipping**
   - For defects that are due to design issue and cannot be closed at manufacturing site

2. **Analysis, Countermeasure Plan and Determination of Corrective Action**

3. **Decision of Treatment on Concerned Products**
   - Instructions on the product and process
   - Countermeasure on Products / Process

4. **Root Cause Analysis and Retroactive Verification**
   - Yes: Spilled Out?
      - Yes: Outflow Alert
      - No: Horizontal Development of Corrective Action

5. **Verification and Approval**
   - Implementation of Corrective Action
   - Effect Evaluation

6. **Occurrence of Abnormality**
   - Cause Analysis Retroactive Verification, Identification & Isolation of the affected products
   - Issuance of process non-conformance report

7. **Definition of abnormality judgment criteria**

8. **Notification**
   - Customer Quality Control Dept.
   - Renesas Electronics Engineering Dept.
   - Production/Relevant Dept.

9. **Information on Cause and Corrective Action**

10. **Effect Evaluation**

11. **Horizontal Development of Corrective Action**

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### ISO, IATF CERTIFICATION

#### [Japan]

<table>
<thead>
<tr>
<th>Company</th>
<th>ISO 9001</th>
<th>IATF 16949</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Renesas Electronics Corporation</strong></td>
<td></td>
<td>(*)</td>
</tr>
<tr>
<td>Headquarters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musashi Site</td>
<td></td>
<td>(*)</td>
</tr>
<tr>
<td>Takasaki Site</td>
<td>Yes</td>
<td>(*)</td>
</tr>
<tr>
<td>Yonezawa Factory</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Oita Factory</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Nishiki Factory</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td><strong>Renesas Semiconductor Manufacturing Co., Ltd.</strong></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>Naka Factory</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Takasaki Factory</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Shiga Factory</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Yamaguchi Factory</td>
<td>Yes</td>
<td></td>
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<tr>
<td>Saijo Factory</td>
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<td></td>
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<tr>
<td>Kawashiri Factory</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td><strong>Renesas Engineering Services Co., Ltd.</strong></td>
<td>-</td>
<td>(*)</td>
</tr>
</tbody>
</table>

(*) Remote supporting function.
## ISO, IATF CERTIFICATION

### [Global]

<table>
<thead>
<tr>
<th>Company</th>
<th>ISO 9001</th>
<th>IATF 16949</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renesas Electronics America Inc.</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Renesas Semiconductor (Beijing) Co., Ltd.</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Renesas Semiconductor (Suzhou) Co., Ltd</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Renesas Semiconductor KL Sdn. Bhd.</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Renesas Semiconductor (Malaysia) Sdn. Bhd.</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Renesas Semiconductor (Kedah) Sdn. Bhd.</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Renesas Semiconductor Design (Malaysia) Sdn. Bhd.</td>
<td>Yes</td>
<td>-</td>
</tr>
<tr>
<td>Renesas Design Vietnam Co., Ltd.</td>
<td>Yes</td>
<td>(*)</td>
</tr>
<tr>
<td>Renesas Semiconductor Design (Beijing) Co., Ltd.</td>
<td>Yes</td>
<td>(*)</td>
</tr>
<tr>
<td>Renesas Electronics Europe GmbH</td>
<td>Yes</td>
<td>(*)</td>
</tr>
<tr>
<td>Renesas Electronics (China) Co., Ltd.</td>
<td>Yes</td>
<td>(*)</td>
</tr>
<tr>
<td>Renesas Electronics (Shanghai) Co., Ltd.</td>
<td>Yes</td>
<td>(*)</td>
</tr>
<tr>
<td>Renesas Electronics Hong Kong Limited</td>
<td>Yes</td>
<td>(*)</td>
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<tr>
<td>Renesas Electronics Taiwan Co., Ltd.</td>
<td>Yes</td>
<td>(*)</td>
</tr>
<tr>
<td>Renesas Electronics Singapore Pte. Ltd.</td>
<td>Yes</td>
<td>(*)</td>
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(*) Remote supporting function.