



May 2016

Fuji Electric Co., Ltd.

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Compliance with the European RoHS Directive

RoHS Directive 2011/65/EU of the European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

The European RoHS Directive is a law to "contribute to the reuse and disposal of electrical and electronic equipment waste with consideration given to human health and the environment". The directive stipulates use restrictions on the following specific hazardous materials (regulated threshold for the amount of contained substance).

- Cadmium and its compounds (100ppm)
- Hexavalent chromium and its compounds (1000ppm)
- Lead and its compounds (1000ppm)
- Mercury and its compounds (1000ppm)
- PBBs (1000ppm)
- PBDEs (1000ppm)

In addition, an exemption is permitted with regards to the above mentioned regulated substances for scientifically or technically infeasible applications.

Examples of exceptions applicable to our power semiconductors

1. Copper alloy containing lead up to 4wt%
2. Lead contained in high-melting point solders (lead-based alloys containing lead in excess of 85% by weight)
3. Lead contained in the glass components of electronic parts

Revisions such as additions and reviews of each of the above restricted substances and exceptions are scheduled in the future, and our company is fully willing to comply as necessary.

In order to correctly understand the RoHS Directive and its exceptions, please refer to the latest version of the RoHS Directive.

Compliance of Fuji Electric Power Semiconductors to the European RoHS Directive

We have developed various RoHS compliant products and fulfilled in most of product lineups while some portion of products still remain as non-RoHS compliant.

Refer to the information below regarding identification of RoHS compliance.

- IGBT Modules (excepting automotive specified model types)
When the last two digits after the hyphen in the product type name are between "50" and "99", the product is RoHS compliant.
When the last two digits after the hyphen are blank or between "01" and "49", the product is not RoHS compliant.
[Example]
 - 2MBI300UD-120-52; RoHS compliant
 - 2MBI300UD-120-02; RoHS non-compliant
- Power Supply Control IC, Power MOSFET, Rectifier Diodes
Products that are currently available for mass production shipping are RoHS compliant.
- High-performance MOSFET for Automobiles, IPS for Automobiles
RoHS compliant products have the leftmost two digits underlined for the five-digit lot number marked on the product.
[Example]
 - 47001; RoHS compliant
 - 47001; RoHS non-compliant
- IGBT IPM for EV/HEV, IGBT Modules for EV/HEV
Products that are currently available for mass production shipping are RoHS compliant.

To find out whether products not listed above are RoHS compliant, please contact a representative at our company or one of our dealers.



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